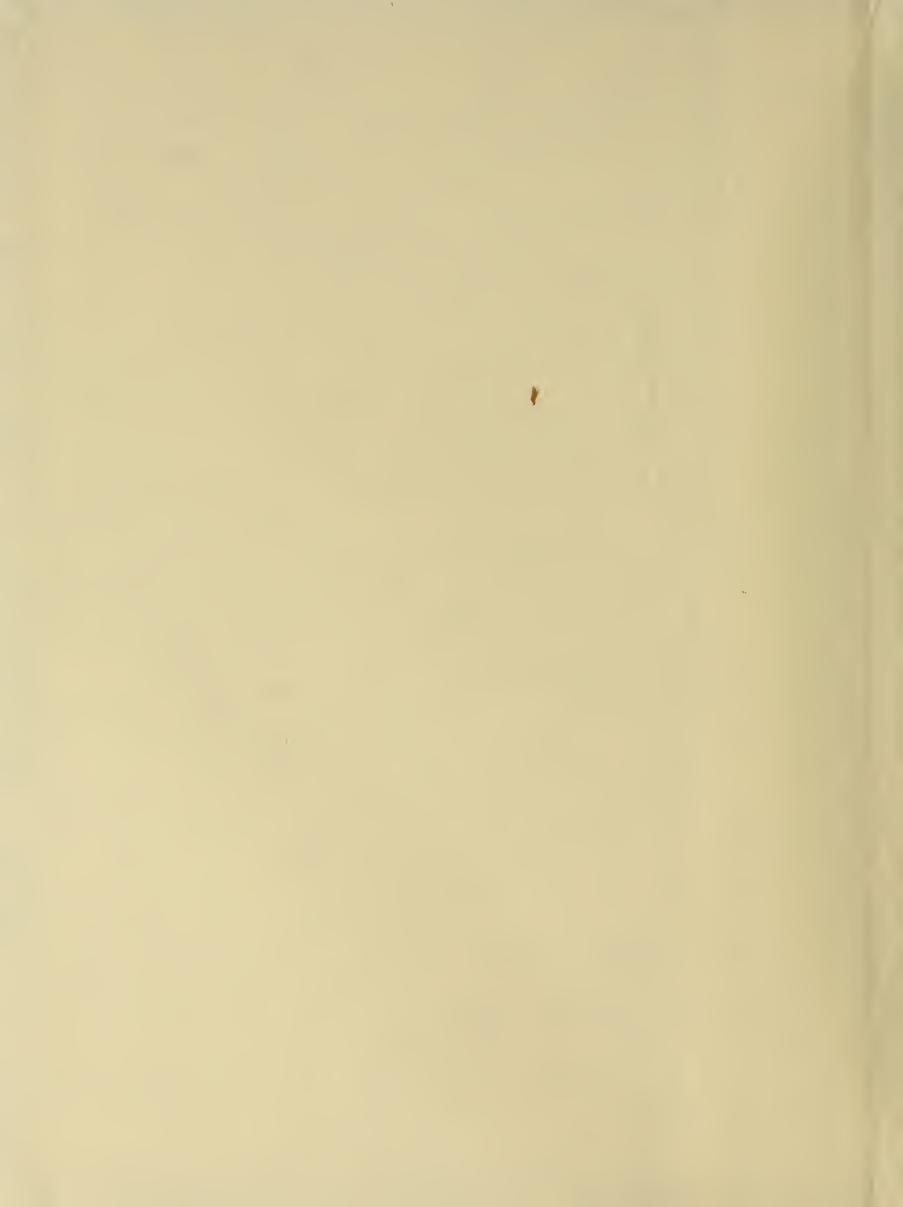


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Census of Construction Industries

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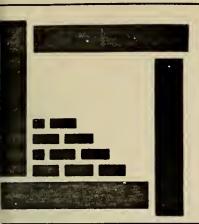
Special Trade Contractors, N.E.C.

Industry 1799



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The publications from the 1982 Economic and Agriculture Censuses are dedicated to the memory of Shirley Kallek, Associate Director for Economic Fields. During her career at the Bureau of the Census (1955 to 1983), she continually directed efforts to improve the timeliness and accuracy of economic statistics.



FINAL REPORT INDUSTRY SERIES

1982

Census of Construction Industries

CC82-I-1 to 28 Changed October 1986

CHANGE SHEET

This revision is to table 4 in the original publications for Industry Series CC82-I-1 to 27 and table 8 for Industry Series C82-I-28. In the stub, change 1982 (line 8) to read 1981 and 1981 (line 12) to read 1982.





1982

Census of Construction Industries

CC82-I-26

INDUSTRY SERIES

Special Trade Contractors, N.E.C.

Industry 1799

Issued December 1984



U.S. Department of Commerce

Malcolm Baldrige, Secretary
Clarence J. Brown, Deputy Secretary
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BUREAU OF THE CENSUS John G. Keane, Director



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This report was prepared in the Construction Statistics Division under the general direction of Leonora M. Gross, Chief. Alan I. Blum, Assistant Division Chief for Industry Surveys, was responsible for the overall management of the census of construction industries. He guided the planning and implementation of the project and coordinated activities with other divisions.

A. William Visnansky supervised the preparation of this report. Barbara J. Hadden, Edward R. Glover, Otto G. Ricci, Marie Rustin-Sanhueza, and Shirley M. Baker made important contributions in such areas as developing specifications, procedures, and resolving problems.

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ECONOMIC CENSUSES OVER TIME

The early beginnings of America's industrial output were first measured in the United States in the 1810 Decennial Census and again in 1820, when questions on manufacturing were included with those for population. Beginning with the 1840 Decennial Census, there were enumerations of manufactures and mineral industries at 10-year intervals up to and including the year 1900 for manufactures and 1940 for mineral industries. The latter census was taken again for 1954, 1958, 1963, and 1967.

Because of the increasing dominance of manufacturing in the early 20th century, Congress directed that quinquennial censuses of manufactures be taken beginning in 1905. However, from 1919 through 1939, these censuses were conducted every 2 years. The need for war-related current surveys in the early 1940's postponed the next census of manufactures until 1948 (for 1947). That census was again taken for 1954, 1958, 1963, and 1967.

Retail and wholesale trade data were first collected in 1930, and in 1933 information on selected service industries was added to the data-collection operation. These business censuses, as they were called, were again taken for 1935, 1939 (as part of the 1940 decennial program), 1948, 1954, 1958, 1963, and 1967.

Information on construction industries was first obtained in 1930 and again for 1935 and 1939. Data for the full spectrum of construction industries were not gathered again until 1968 (for 1967).

The need for transportation data to supplement information available from existing governmental or private sources was recognized by Congress in the late 1950's and early 1960's. The census of transportation (consisting of several surveys) was first taken for 1963 and again for 1967.

Since 1967, all of the above censuses have been taken quinquennially as part of the Census Bureau's economic census program. (For the 1977 censuses, the coverage of the service industries was broadened from "selected services" to all services, except religious organizations and private households. A total of 41 additional four-digit standard industrial classifications1 (SIC's) in 7 SIC major groups was added to the scope of the census. While most of the industries included for the first time for 1977 were covered again for 1982, some were not, i.e., hospitals; elementary and secondary schools; colleges, universities, and professional schools; junior colleges and technical institutes; labor unions and similar labor organizations; and political organizations.)

The first manufacturing census for an outlying area was conducted in Puerto Rico for the year 1909. Thereafter, with the exception of 1929, a census was taken at 10-year intervals through 1949. The first censuses of retail trade, wholesale trade, and selected service industries in Puerto Rico were conducted for 1939. These censuses also were taken for the years 1949, 1954, 1958, 1963, and 1967. A census of construction industries was first introduced in Puerto Rico for 1967. These censuses of Puerto Rico have been taken since then for the years 1972, 1977, and 1982.

Censuses of manufactures, retail trade, wholesale trade, and selected service industries were conducted in Guam and the Virgin Islands of the United States for 1958, 1963, 1967, 1972, 1977, and 1982. Censuses of mineral industries were taken in the Virgin Islands of the United States for the years 1958, 1963, and 1967 but not since that time. A census of construction industries was also undertaken in these areas for 1972, 1977, and 1982.

Retail trade, wholesale trade, selected service industries, manufacturing, and construction industries were canvassed for the first time in the Northern Mariana Islands in 1983 (for 1982).

For 1982, the economic censuses and agriculture censuses were conducted concurrently.

USES OF THE ECONOMIC CENSUSES

The economic censuses are the major source for facts about the structure and functioning of the Nation's economy and provide essential information for government, business, industry, and the general public. They provide an important part of the framework for such composite measures as the gross national product, input-output measures, indexes of industrial production, and indexes measuring productivity and price levels. Information from the censuses is used to establish sampling frames and as benchmarks for current surveys of business activity, which are essential for measuring short-term economic conditions.

^{&#}x27;Standard Industrial Classification Manual: 1972. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. Stock No.041-001-00066-6. 1977 Supplement. Stock No. 003-005-00176-0.

State and local governments use census data to assess business activities within their jurisdictions. The private sector uses the data to forecast general economic conditions; analyze sales performance; lay out sales territories; allocate funds for advertising; decide on locations for new plants, warehouses, or stores; and measure potential markets in terms of size, geographic areas, kinds of business, and kinds of products made or sold.

Following every census, thousands of businesses and other users purchase reports. Likewise, census facts are widely disseminated by trade associations, business journals, and newspapers. Volumes containing census statistics are available in most major public and college libraries. All 1982 data are available on microfiche from the U.S. Government Printing Office and most data on computer tape from the Census Bureau. Finally, the more than 50 State Data Centers also are suppliers of economic census statistics.

AUTHORITY AND SCOPE OF THE ECONOMIC CENSUSES

The economic censuses are required by law under title 13 of the United States Code, sections 131, 191, and 224, which directs that they be taken at 5-year intervals for the years ending in 2 and 7. The 1982 Economic Censuses covered manufacturing, mining, construction industries, retail trade, wholesale trade, service industries, and selected transportation activities. Special programs also cover minority-owned and women-owned businesses. The next economic censuses are scheduled to be taken in 1988 for the year 1987.

METHOD OF ACCOUNTING AND TIME COVERED

For the census report, respondents could use any system of accounting by which they maintained their books. Therefore, reports could be based on cash, accrual, or completion of contract methods of accounting.

A report was supposed to cover the calendar year 1982. If that involved considerable costs, fiscal year reporting was permitted if it did not produce great differences. However, all payroll and employment figures had to be reported for the calendar year.

CENSUS OF CONSTRUCTION INDUSTRIES— SCOPE AND CLASSIFICATION

The 1982 Census of Construction Industries covers all employer establishments (establishments with payroll) primarily engaged in contract construction, construction on their own account for sale, or in subdividing real property into lots as defined in the 1972 Standard Industrial Classification (SIC) Manual.¹ This industrial classification system has been developed by experts on classification in government and private industry under the guidance of the Office of Management and Budget and is in general use among government agencies and among organizations outside the government.

'Standard Industrial Classification Manual: 1972. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. Stock No. 041-001-00066-6. 1977 Supplement. Stock No. 003-005-00176-0.

Contract construction - The SIC manual defines construction in three broad types of activity: (1) building construction by general contractors, (2) other construction by general contractors, and (3) construction by special trade contractors.

- 1. Building construction by general contractors—General building contractors are primarily engaged in the construction of dwellings, office buildings, stores, farm buildings. and other projects of a similar character.
- 2. Other construction by general contractors Often referred to as heavy construction contractors, these contractors are primarily engaged in the construction of highways, streets, bridges, and tunnels; docks and piers; dams and water projects; sewage collection, treatment, and disposal facilities; storm sewer systems; air fields; and other heavy construction which involves either earth moving or the erection of structures and appurtenances, other than buildings.
- 3. Construction by special trade contractors Special trade contractors are primarily engaged in specialized construction activities such as plumbing, painting, electrical work, carpentry, etc.

General contractors in both the building and the heavy construction field usually assume responsibility for an entire construction project, but may subcontract to others those portions of the project requiring special skills or equipment. Special trade contractors may work for general contractors, for other subcontractors, or may work directly for the owner of the property.

Construction on their own account, for sale-Operative builders are primarily engaged in constructing buildings or other structures on their own account, acting as their own general contractor. These structures are generally sold when completed. Investment builders, primarily engaged in construction on their own account for rent or lease, were not included within the scope of the construction census.

Subdividers and developers, except cemeteries-The SIC manual defines subdividers and developers, except cemeteries, as establishments engaged in subdividing real property into lots, except cemetery lots, and in developing it for resale on their own account or for others.

In this system, each establishment is assigned an industry code on the basis of its major activity.

Each establishment receiving a questionnaire was requested to report the percent of total business receipts for each kind-ofbusiness activity engaged in during 1982. This information was used for the computer assignment of appropriate industry classifications. During this work, various tests were also made using other data reported on the questionnaire. The proportion of construction receipts to total business receipts was checked to verify that the establishment was primarily in construction. Also taken into consideration were the types of structures worked on during the year and the extent of work undertaken for other contractors.

Construction establishments often engage in various construction activities, but in only a few instances do the SIC industry categories take into consideration combinations of activities. An example is SIC 1711, which includes establishments primarily engaged in plumbing, heating, air conditioning, ventilation, and refrigeration work. It is necessary, however, to assign a single industry code to the establishment based on its major activity.

Therefore, the statistics shown for an industry reflect not only the primary activity of the establishments in the industry, but also their secondary activities.

The structure of the Standard Industrial Classification System makes it possible to classify or tabulate establishments by major group (two-digit), industry group (three-digit), or industry (four-digit) according to the degree of detail available and needed.

ESTABLISHMENT BASIS OF REPORTING

The census of construction industries is conducted on an establishment basis. A "construction establishment" is defined as a relatively permanent office or other place of business which has been established for the management of more than a single project or job and is expected to be maintained on a continuing basis. Such "establishment" activities include, but are not limited to, estimating, bidding, scheduling, purchasing, supervising, and operating the actual construction work being conducted at one or more construction sites.

Exceptions to the "relatively permanent office" rule were that: (1) in case of joint ventures, a separate establishment report was required covering the joint venture entity even though established to undertake only a single project; and (2) to the extent that separate legal entities were set up to carry out only a given project or part of a project, then a separate establishment report was also required for each legal entity.

To the extent that several companies shared or operated out of a single office or place of business, each such legal entity engaged in construction was considered a separate establishment and each was requested to file the necessary "establishment" report covering the activities it conducted in or from that common office.

Companies with more than one construction establishment were required to submit a separate report for each such establishment operated during all or any part of 1982.

Separate construction reports were not required for each project or construction site. Aggregated information was included in the report of the construction establishment responsible for the work of the construction projects and sites.

If an establishment engaged in two or more distinctly different lines of economic activity (wholesale or retail trade, service, manufacturing, construction, mining, etc.) at the same place of business, it was requested to file a separate report appropriate to each activity, provided that the activity was of substantial size and separate records were maintained or substantially accurate etimates could be prepared.

If a separate establishment report could not be prepared for each activity, then a construction report was requested covering all activities of that establishment providing that the 1982 gross receipts from construction activities exceeded the gross receipts from each of its other activities.

An establishment is not necessarily identical with a "company" or "enterprise," which may consist of one or more establishments. The census of construction industries figures represent a summary of records for individual establishments rather than for companies. The census tabulations, therefore, differ from those prepared on a company basis.

Construction businesses with no payroll during 1982 (nonemployers) were not required to file census reports. Collection and tabulation of data for these businesses are described in the section on "Sample Design." Foreign construction activities were not included in this census.

SAMPLE DESIGN, ESTIMATION PROCEDURES, AND **RELIABILITY OF ESTIMATES**

The firms included in the 1982 Census of Construction Industries were identified as part of an operation common to all 1982 Economic Censuses. Construction firms were divided into employers (firms with payroll) and nonemployers (firms without payroll). Statistical information for the employers was obtained in the census by a survey which included all medium size and large employers and a sample of the smaller ones. Census reports were not required from the nonemployers. Statistics on them were obtained from administrative records of other agencies of the Federal Government based on information supplied directly to the agencies.

Employer Firms

Developing the sampling frame for employer firms-This operation started with obtaining a list of all construction firms in the active records of the Internal Revenue Service (IRS) which were subject to payment of Federal Insurance Contributions Act taxes. The basic source for this list has been the Internal Revenue Service Business Master File, a comprehensive list of firms engaged in business activities in the United States. The file contains the name, address, and form of ownerhship of each firm and also indicates whether or not the firm is subject to the Federal Insurance Contributions Act. Each firm in this file is assigned a unique employer identification (EI) number which it uses in filing its various reports with the IRS. The Social Security Administration (SSA) maintains a similar list using the same identification numbers, which also contains information on the industrial classification of each firm. The Bureau of the Census obtained both of these lists and combined them.

Under special arrangements which safeguarded the confidentiality of the information, the Bureau also obtained administrativerecord data on payrolls and receipts and added these data to the combined list. The list, thus created from the IRS-SSA information, was a list of employer firms. However, for the 1982 Economic Censuses the basic reporting unit is the "establishment." Therefore, steps were taken to identify the individual establishments of those firms which operate more than one place of business. The information for making this determination was obtained by means of the Company Organization Survey (COS), an annual canvass of all known multiestablishment firms and large single-establishment firms. Thus, the 1982 Economic Census list for single-establishment employer firms was obtained from the IRS-SSA, but the list of establishments of multiestablishment employer companies was obtained directly from those companies in the COS.

In general, the IRS-SSA list provided sufficient industrial classification data to assign a firm to the proper economic census, but there were a number of firms for which this information was inadequate or unavailable. A special form, NC-9923, General Report, was mailed to all such firms, requesting information on the nature of the firm's activities. From the information reported, the firm was given an industrial classification code and assigned to the appropriate economic census. Since construction firms found in this way were identified as such, only after the regular census mailing had taken place, they were treated as a supplement to the basic list.

For 1982, some data will be published for Standard Consolidated Statistical Areas (SCSA's) and selected Standard Metropolitan Statistical Areas (SMSA's). Therefore, each establishment was assigned to an SMSA code or to the balance of a State. The balance of the State was considered to be a separate cell for the selection process. In States where none of the SMSA's had more than 500,000 inhabitants in the 1970 Decennial Census, all establishments were assigned to the balance of the State.

Selecting the employer sample—A construction universe of about 464,000 single establishment employer firms and 6,500 multiestablishment employers, accounting for another 13,000 construction establishments, was developed by the procedures described above. From this universe, a sample of 172,000 employer establishments was selected. This sample was generally organized by standard industrial classification (SIC) in State sequence. The sample was designed to provide publishable estimates for the most construction industries at the State and selected SMSA level. It consisted of all construction establishments in multiestabishment companies, all singleestablishment companies with the payroll equivalent of 20 employees or more, and a sample of single-establishment companies with less than 20 employees. There were three SIC's for which this standard plan was not used: SIC 1622, Bridge, Tunnel, and Elevated Highway Construction Contractors; SIC 1795, Wrecking and Demolition Work Special Trade Contractors; and SIC 1796, Installation or Erection of Building Equipment Special Trade Contractors.

The number of establishments classified in each of these three industries is very small and consequently, all single-unit establishments in these three industries were included in the sample. For sampling purposes, the number of employees was estimated from the 1981 payroll data in the administrative records, using an industry average wage per employee. The sampling was accomplished using a systematic method within each four-digit SIC. If the SIC code for an establishment was not complete, it was sampled as part of a two-digit group (e.g., 1520 was sampled as 1500, 1620 as part of 1600) except for non-classifiable cases in two-digit group 17. These were sampled as part of 1799 which is Special Trade Contractors, Not Elsewhere Classified. For the establishments with less than 20 employees, the sample was selected by sorting the establishments into State by SMSA by SIC by payroll sequences, and drawing a systematic sample of at least two establishments within each cell, with the probability of selection being proportional to the 1981 payroll. If the State-SMSA-SIC cell had two or less establishments in the frame, all establishments were selected (a 100-percent sample). A 100-percent sample was taken of the construction firms identified from the NC-9923, General Report, and of the transfers from other census trade areas. These latter cases were identified during the processing stages. These were caused either by changes of activity in the firm since the last updating of the classification file, or errors in the mailout classification. These cases were all added to the construction census, with certainty.

Estimation procedures for 1982 and 1977 data-Since all larger employer firms and some smaller ones were included in the census, sample estimation was required only for the universe of firms not selected with certainty. The published statistics are the totals of the estimates for the sampled firms and the

aggregates for the certainty (larger) firms. All estimates for 1982 and 1977 published here are simple unbiased estimates of the form:

$$n_{c}$$

$$x'_{c} = \sum x_{i}/p_{i}$$

$$\vdots = 1$$

is the simple unbiased estimate of a where: x'c characteristic for a publication cell.

> is the reported value of a characteristic for an individual establishment in the publication cell.

is the selection probability of that firm.

is the number of firms in the sample for the cell.

This method of estimation was used for all 1982 and 1977 characteristics. Before this formula was applied, it was necessary to convert into dollars those distributions of construction receipts which had been reported by the establishments as percentages construction receipts by type of project, location of project, etc.

Reliability of employer statistics—Since the estimates for employer establishments in these reports are based on the samples, they are subject to sampling variability and may be expected to differ from results which would have been obtained if a complete census had been taken using the same forms and procedures. The sampling errors shown in the tables were estimates directly from the sample reports, using methods appropriate for the sample design and form of estimation used.

The relative standard error is a measure of sampling variability, i.e., the variation that might occur by chance because only a sample of the population is surveyed. As calculated for this report, the relative standard error also partially reflects the effect of random errors of response and processing, but it does not take into account the effect of any consistent biases due to those types of errors. The chances are about 68 out of 100 that an estimate from the sample would differ from a complete census by less than the relative standard error. The chances are about 95 out of 100 that the difference is less than twice the relative standard error and about 99 out of 100 that it is less than 2-1/2 times the relative standard error. Individual estimates with large relative standard errors have been shown in the published tables. Any such estimates should be used with caution. The very large relative standard errors generally occur for the smaller estimates.

Although relative standard errors have been calculated for all of the published statistics, they are shown for each statistic only in the tables presenting detailed statistics. The other tables show relative standard errors only for some characteristics because of lack of space.

Separate measures of reporting and processing errors are not available. However, estimates which were subject to large errors of these types are likely to have been detected and corrected, or withheld from publication in the process of the review of the data for reasonableness and consistency. Other specific qualifications of the published data are indicated in footnotes to the tables.

The statistics in this report were based on data received by the time of final publication. Data were imputed for establishments that did not report by that date. Selected establishments were contacted again to obtain as much information on the telephone as possible. Late data received in early 1984 were substituted for imputed data when the difference between the two was significant. Some publication cells in which more than 50 percent of the data were imputed have been suppressed.

Nonemployer Firms

General—As described earlier, the information derived from the business income tax returns of all firms was matched to the census employer file on the basis of common identification numbers. Those business income tax returns which could not be matched, were further classified on the basis of several characteristics. Returns with characteristics consistent with firms without payroll were treated as nonemployers. The nonemployer construction firms were not required to file census reports.

For "number of establishments," each separate income tax return was assumed to be an establishment. "All business receipts" was based on receipts information reported on the tax return. In 1982, this group accounted for 60 percent of the total number of construction establishments, but accounted for only 8 percent of all business receipts of all construction establishments.

Qualifications to the nonemployer data—Since no sampling was involved in the nonemployer establishments, the statistics for nonemployers are not subject to sampling variability. However, these data are subject to an unknown amount of reporting and processing errors which could not be detected by the Census Bureau.

CENSUS REPORT FORMS

Information for the 1982 Census of Construction Industries was obtained from employer establishments primarily through the use of eight questionnaires, determined by industry classification and size. Standard forms and short forms were developed for each of the three two-digit SIC groups (15, 16, and 17), and for the establishments classified in SIC 6552. Establishments with 50 or more employees all received the standard form. A sub-sample of establishments with fewer than 50 employees received short forms instead of the standard forms. The short forms covered only major items and omitted most of the detail found in the longer forms.

In reviewing and developing the questionnaires, comments and recommendations were solicited from construction trade associations and appropriate advisory groups. The Census Bureau surveyed several thousand firms representing all economic activities to gain insight into the way companies maintain records and to see whether new information could be collected.

DATA PROCESSING

The 1982 census report forms were mailed out in December 1982. Collection of these report forms, also by mail, was essentially completed in July 1983. They were mailed from and

returned to the Census Bureau's Data Preparation Division in Jeffersonville, Ind., where routine editing and coding of the report forms were also accomplished.

The returned reports underwent extensive processing. A preliminary edit done at the time of data entry identified obviously deficient reports and reports needing clarification. When necessary, these problems were resolved by further contact with the respondents. Next, the data were transmitted to Census Bureau headquarters in Washington, D.C.

Data records, then, underwent a detailed computer review and analysis. The records containing significant problems were referred for further analytical review and, if necessary, contacts were made with the respondents. The computer performed most classification coding (such as industry coding, geographic coding, and size coding) and imputation for missing items or for the small number of reports not received in time for tabulation. The imputation was performed on an industry (or industry group)-State (or geographic group) basis using all available response and administrative data.

The data records were then tabulated on an industry basis. Industry totals were subjected to analytical review, and selected statistics were prepared for the preliminary reports. Corrections resulting from this review were made to the computer records and final tabulations were produced.

The review of a preliminary report for an industry often uncovered the need for corrections or revisions to the data for another industry for which a preliminary report had already been published. The final reports incorporate all revisions and corrections made during the review of the preliminary reports and contain considerable more data than were published in those reports.

GEOGRAPHIC CLASSIFICATION

Information for the 1982 Census of Construction Industries' final industry report series is classified on the basis of two types of geographic distributions: (1) physical location of the establishment, and (2) location of construction work. Separate State codes were assigned based on this information.

The geographic area reports series presents similar data by industry for each State (physical location of the establishment) and for selected SCSA's and SMSA's.

DUPLICATION IN RECEIPTS

The aggregate of construction receipts reported by all construction establishments in each of the several industry, geographic area, or other groupings in this census, contains varying amounts of duplication, since the construction work (and the receipts) of one firm may be subcontracted to other construction firms and also be included in the subcontractors' receipts. To avoid this duplication, a "net construction receipts" figure has been derived for each establishment by subtracting the payments made for construction work subcontracted to others from the total construction receipts.

Duplication in receipts between other construction and nonconstruction industries results from the use of products of these other industries as input materials by construction establishments. "Value added," avoids this duplication and is, for most purposes, the best measure for comparing the relative economic importance of industries or areas. "Value added," is

defined in the 1982 Census of Construction Industries as equal to all business receipts less payments for construction work subcontracted to others and payments for materials, components, supplies, and fuels. However, for SIC 6552 and SIC 1531 where land receipts are significant, value added is defined as equal to all business receipts less land receipts, payments for construction work subcontracted to others, and payments for materials, components, supplies, and fuels.

SPECIAL TABULATIONS

Special tabulations of data collected in the 1982 Census of Construction Industries may be obtained on computer tape or in tabular form. The data will be in summary form and subject to the same rules prohibiting disclosure of confidential information (including name, address, kind of business, or other data for individual business establishments or companies), as are the regular publications.

Special tabulations are prepared on a cost basis. A request for a cost estimate, as well as exact and detailed specifications of the type and format of the data to be provided, should be directed to the Chief, Construction Statistics Division, Bureau of the Census, Washington, D.C., 20233.

To discuss a special tabulation before submitting specifications, call 301-763-5435.

RELATIONSHIPS OF THE ECONOMIC CENSUSES TO **CURRENT SURVEYS**

The Census Bureau also conducts current surveys (monthly, quarterly, and annually) to keep abreast of the rapid changes in business conditions, new processes, new materials, and shifting demands of goods and services. The census universe provides the sampling frame, weights, and benchmarks on which some of these current surveys are based. The accuracy of the measures derived from these current surveys is directly related to the completeness of information provided in the censuses.

COMPARABILITY OF CENSUS OF CONSTRUCTION INDUSTRIES DATA WITH OTHER DATA

Data contained in the reports of the 1982 Census of Construction Industries are not the same as the data published in the Census Bureau's monthly Construction Reports, Series C30, Value of New Construction Put in Place. The main difference is that the C30 series covers all new construction put in place without regard to who is performing the construction activity, whereas, the construction census figures cover both new construction and

maintenance and repair work, but only for establishments classified in the construction industry. Force account construction activity-construction work performed by the labor force of a nonconstruction company for itself, or by other entities (Federal, State, or local governments) for themselves, or by property owners for themselves-probably accounts for more than half of the difference in the data of the two series of reports. Other factors contributing to the difference are that the census data do not include: (1) the value of materials supplied by the owners of projects, (2) the value of separate architectural and engineering services and, to a lesser extent, (3) the value of construction work performed for others by firms outside the scope of construction (manufacturers who install, lumber yards and other businesses, etc.).

Data contained in the reports of the census of construction industries may also differ from industry data in "Employment and Earnings Statistics," published by the Bureau of Labor Statistics, and "Statistics of Income," published by the Internal Revenue Service. These differences arise from varying definitions of scope, coverage, timing, classification, and methodology. Their effect is not fully known.

ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used in this publication:

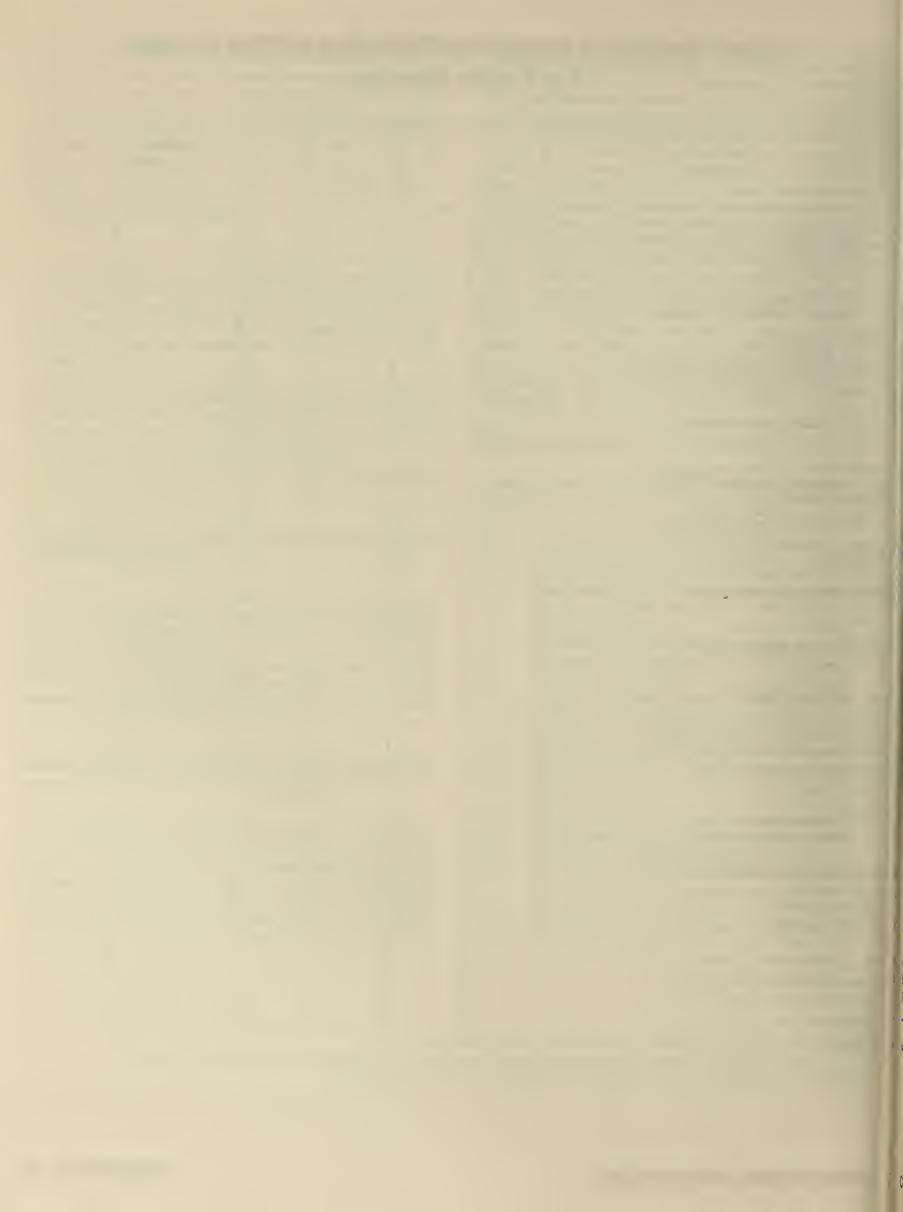
- Sampling error exceeds 40 percent.
- All employees (average) is the sum of construction workers during pay period including 12th of March, May, August, and November divided by 4, added to all others, March 12th.
- Represents zero.
- Represents total construction receipts less payments for construction work subcontracted to others. (See **Duplication in Receipts.)**
- Represents all business receipts less payments for con-†† struction work subcontracted to others, and payments for materials, components, supplies, and fuels. In SIC's 1531 and 6552, land receipts are also subtracted from "all business receipts." (See Duplication in Receipts.)
- Possible duplication in data. (See Duplication in Receipts.)
- Withheld to avoid disclosing data for individual com-(D) panies; data are included in higher level totals.
- (NA) Not available.
- Withheld because estimate did not meet publication standards on the basis of either the response rate, associated standard error, or a consistency review.
- Greater than zero but less than 1 percent.
- n.s.k. Not specified by kind.

Users' Guide for Locating Statistics in This Report by Table Number

Statistics	For U.S.	By State	By employ- ment size	By receipts size	By type, class, ownership, kind of business, and location of construction ¹	By specialization in types of construction
Assets and depreciation (gross book value):						
Beginning of year – structures, machinery and equipment	3					
End of year—total	1, 3	1	5	6		
End of year – structures, machinery and equipment	3					
Depreciation charges during the year— structures, machinery and equipment	3					
Capital expenditures:						
Total capital expenditures	1, 3	1	5	6		
Used structures—machinery and equipment	3					
Communication services, payments for	2					
Employees:						
All employees—average number	1, 2	1	5	6		8
Other employees – March	2					
Employer costs for fringe benefits—legally required and voluntary expenditures	2					
Establishments:						
Number in business at end of year		1, 9	5	6		8
Hours—construction workers:	', -, ', '	٠, ٥	J	Ĭ		
Total	1, 2, 9	1, 9	5	6		
Quarterly	2, 9	9				
Inventories	4					
Materials, components, supplies, and fuels— payments for	1, 2	1	5	6		
Payroll: First quarter, all employees	2					
All employees	1, 2	1	5	6		8
Construction workers		1				
Power, fuels, and lubricants—payments for	2					
Profile of the industry—selected industry						
averages	12					
Proprietors and working partners	2					
Ratios, State	13	13				
Receipts:	_				11:	
All business receipts	1, 2, 4	1	5 5	6	2, 7, 10	8
For work subcontracted in from others Other business receipts and land receipts ²	2 2					
Net construction receipts	1, 2	1	5	6		8
Value added	1, 2	1	5	6		8
Rental payments: Total	1, 2	1	5	6		
For machinery and equipment	2		3			
For structures	2					
Repairs to structures and related facilities	ł					
Repairs to machinery and equipment						
Storage capacity for fuels ³				6		
Subcontract work to others, payments for	1, 2	1	5	Ь		8

Note: Data for 1977 and earlier years are also available in some of these tables.

¹Type—buildings, roads, etc. Class—new construction or maintenance and repair work. Ownership—private or government owned. ²Other business receipts and land receipts are shown separately for SIC's 1531 and 6552 only. ³Storage capacity for fuels shown only for SIC's 1611, 1622, 1623, and 1629.



Speciai Trade Contractors, N.E.C.

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SUMMARY OF FINDINGS

Establishments classified in this industry are primarily engaged in construction work that could not be classified in another specific industry. This industry includes establishments doing such construction work as core or diamond drilling, scaffolding construction, house moving, fireproofing and waterproofing of buildings and other structures, sandblasting and steam cleaning of building exteriors, and other construction activities. For specific examples, refer to the 1972 Standard Industrial Classification (SIC) Manual and its 1977 supplement.¹

During 1982, there were 20,446 establishments with payroll classified in this industry.² All business receipts of these establishments amounted to \$6.4 billion, of which \$6.1 billion were receipts for construction work. Their payments for construction work subcontracted to others amounted to \$456 milllion, leaving net construction receipts of about \$5.6 billion. Value added for 1982 was \$3.7 billion. (See Introduction and appendixes for explanation of terms.)

The establishments in this industry made payments of \$2.0 billion for materials, components, and supplies purchased for use in construction work for others, purchased and subsequently provided to subcontractors for their use, purchased and then resold to others, and purchased and used in construction work for their own account. However, materials furnished to contractors by owners of projects are, of course, not included. Payments of \$173 million were also made for selected power, fuels, and

¹Standard Industrial Classification Manual: 1972. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. Stock No. 041-001-00066-6. **1977 Supplement.** Stock No. 003-005-00176-0.

lubricants purchased during the year from other companies or received from other establishments of the parent company.

Establishments with 10 employees or more, while representing only 15 percent of the total number of employer establishments in this industry, accounted for 63 percent of all business receipts.

Total average employment in the industry showed a decrease of 1 percent from 1977 to a total of 128 thousand employees. Total payroll for 1982 amounted to \$1.8 billion. Hours worked by construction workers during the first quarter of 1982 were 35.1 million hours, while hours worked during the third quarter were 42.7 million hours.

Payments of \$345 million for employer costs for fringe benefits (not included in payroll) represent expenditures during the year for legally required and voluntary fringe benefit programs for employees—such as employers' Social Security contributions, unemployment compensation, pension plans, and welfare plans.

The 1982 estimates for establishments with payroll in all of the construction industries are based on a probability sample consisting of about 172,000 construction establishments. The estimates for this particular industry are based on a sample of about 8,900 establishments.

The statistics reported by each establishment cover all of its activities, not just construction. Therefore, aggregates of such data for an industry reflect not only the primary construction activities of the establishments in the industry, but also their secondary construction activities and any nonconstruction activities.

All data shown are based on current dollars for the years specified and have not been adjusted for price changes or inflation between 1977 and 1982.

²Limited data for establishments in this industry without payroll (nonemployers) will be included in the U.S. industry summary report to be published after the individual industry reports have been issued.

Table 1. General Statistics for Establishments With Payroll by State: 1982 and 1977

					1982			
		Emplo	yees**	Pay	roll			
Location of establishment	Number of establishments	All	Construction workers	All employees	Construction workers	Construction worker hours (thousands)	Total construction receipts	Net construction receipts†
	A	В	С	D	Е	F	G	Н
United States	20 446	127 72 7	102 099	1 833 071	1 331 302	157 604	6 076 411	5 620 493
AlabamaAlaskaArizonaArkansasCalifornia	308 87 379 225 2 388	(D) (S) (D) 17 501	1 067 (S) (D) (D) 13 772	14 220 (S) (D) 12 259 261 255	10 087 (S) (D) (D) 190 588	1 670 (S) (D) (D) 19 028	53 332 (S) (D) (D) 847 968	50 348 (S) (D) 46 681 777 396
Colorado Connecticut Delaware District of Columbia Florida	301	1 782	1 433	28 958	20 024	2 261	89 364	84 291
	267	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	52	297	210	4 318	3 029	339	11 829	11 608
	*18	(S)	(S)	(S)	(S)	(S)	(S)	(D)
	1 591	9 315	7 450	120 173	87 631	11 799	457 482	406 264
Georgia	529	3 247	2 642	40 782	29 585	4 169	142 296	(D)
	60	412	310	5 781	(D)	528	20 484	18 949
	92	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	647	4 210	3 439	72 302	54 443	4 402	223 596	211 472
	373	1 755	1 399	22 198	16 355	2 134	74 931	69 912
lowaKansasKentuckyKouisiana	165	430	372	(D)	4 214	681	20 007	18 848
	193	(D)	787	(D)	(D)	(D)	(D)	39 044
	241	1 215	1 002	12 859	9 607	1 393	42 644	40 594
	574	6 871	5 679	137 806	86 829	10 597	387 660	350 026
	91	889	787	19 178	18 827	(D)	46 897	46 299
Maryland	395	2 535	1 936	31 301	21 223	2 870	110 245	101 795
	461	2 759	2 131	39 745	29 619	3 284	143 465	133 899
	491	2 613	2 010	38 552	26 973	2 755	124 544	115 744
	328	1 280	1 050	19 160	15 159	1 522	57 896	(D)
	194	1 289	1 018	12 195	9 313	1 795	40 671	38 173
Missouri	364 75 128 128 65	2 044 249 (D) (D)	1 602 198 418 (D) 347	25 874 2 824 5 831 (D) 5 776	18 806 2 435 4 421 (D) 4 074	2 143 331 650 937 575	82 871 11 389 21 546 41 837 19 721	(D) 10 927 20 330 (D) 18 592
New Jersey New Mexico New York North Carolina North Dakota	714	4 263	3 486	69 690	54 233	5 400	223 871	208 674
	127	744	(D)	9 267	(D)	(D)	(D)	31 473
	1 265	9 364	7 271	138 854	100 804	11 581	440 059	411 952
	527	2 516	2 118	(D)	19 797	3 350	(D)	(D)
	83	(D)	318	(D)	4 369	526	19 421	18 264
OhioOklahoma	606	3 555	2 913	50 465	37 648	4 174	169 884	160 047
	399	2 508	2 018	34 319	25 288	2 876	119 979	110 956
	185	647	539	9 925	7 468	726	(D)	(D)
	700	3 670	2 888	55 528	39 884	4 288	207 286	(D)
	115	322	265	4 739	3 848	424	16 828	15 350
South Carolina South Dakota Tennessee Texas Utah	348	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	44	(S)	(S)	(S)	(S)	(S)	(S)	(D)
	365	1 873	1 516	20 910	15 053	2 358	82 842	77 127
	2 183	17 153	13 896	255 469	186 479	22 727	836 304	758 118
	146	909	728	12 161	8 661	1 013	40 462	37 489
Vermont Virginia Washington West Virginia Wisconsin Wyoming	57	297	232	3 586	2 549	421	13 911	12 841
	431	2 864	2 268	41 518	28 605	3 495	123 435	117 143
	429	1 707	1 360	19 736	14 782	1 770	65 011	61 504
	109	473	409	6 892	5 265	689	19 918	(D)
	286	1 278	1 018	18 744	11 966	1 340	52 363	(D)
	123	542	464	6 680	5 199	658	26 229	24 956

-		1982-	-Con.		1977							
Value added††	Payments for materials, components, supplies, and fuels	Payments for construction work sub- contracted to others	Rental payments for machinery, equipment, and structures	Capital expenditures, other than land	End-of-year gross book value of depreciable assets	All employees**	Total construction receipts	Value added††	error (pe	ive star of esti ercent) olumn-	mate for	Location of establish- ment
1	J	К	L	М	N	0.	Р	Q	В	Н	М	
3 894 404	2 215 359	455 918	100 120	124 049	1 142 261	128 440	4 407 208	2 892 686	(W)	(W)	1	U.S.
32 250 (S) (D) (D) 528 785	22 540 (S) (D) 18 757 (D)	2 984 (S) (D) (D) 70 571	910 (S) (D) 647 18 344	1 486 (S) (D) 1 229 18 001	11 143 (S) (D) 10 427 154 200	1 493 256 (D) 953 17 537	42 864 15 378 101 625 19 893 794 278	24 665 11 243 55 205 12 049 469 827	- - - 2	10 - 17 2	23 - 13 2	Ala. Alaska Ariz. Ark. Calif.
51 773 (D) 7 381 (S) 242 405	(D) (D) (D) (S) (D)	5 073 (D) 221 (D) 51 217	(D) (D) 225 (D) 8 829	(D) (D) 208 (D) 7 691	17 432 (D) 3 295 (S) 66 132	2 157 1 731 197 211 7 579	84 354 51 863 8 384 6 339 259 366	40 863 32 463 3 364 4 137 137 717	8 17 - 3	8 13 - 3	20 5	Colo. Conn. Del. D.C. Fla.
84 135 12 897 (D) 145 330 40 755	(D) 7 558 (D) (D) 33 603	(D) 1 534 (D) 12 124 5 019	1 930 569 (D) 3 580 1 498	2 831 397 (D) 3 960 2 190	24 688 3 818 (D) 38 721 16 890	3 161 884 405 5 415 2 881	88 442 38 594 13 445 207 679 91 732	53 655 24 963 8 302 140 092 52 496	6 13 - 4 6	11 - 3 7	9 8 - 9 10	Ga. Hawaii Idaho III. Ind.
(D) (D) 25 391 266 998 (D)	(D) 16 191 17 719 109 708 12 475	1 159 (D) 2 049 17 634 598	203 349 436 5 444 535	118 962 809 6 555 1 065	1 864 8 482 7 396 81 838 4 944	859 923 1 417 8 241 468	24 710 26 784 34 609 186 256 14 192	15 069 16 229 21 477 137 638 7 911	15 14 2 8	17 12 11 2 7	34 19 12 4 5	lowa Kans. Ky. La. Maine
83 892 80 207 76 750 38 696 23 471	41 694 (D) (D) 18 116 17 136	8 449 9 566 8 800 (D) 2 497	(D) 1 903 2 221 623 562	1 991 (D) 2 774 1 185 (D)	17 496 21 126 32 558 13 129 8 898	2 477 2 327 3 980 1 839 1 067	66 682 79 356 144 210 62 770 30 579	39 563 43 034 91 393 42 836 17 008	7 6 6 8 13	6 5 6 - 11	8 8 10	Md. Mass. Mich. Minn. Miss.
48 713 7 514 13 963 (D) (D)	(D) 3 665 8 122 16 574 9 024	(D) 462 1 216 (D) 1 129	805 62 (D) (D) 273	2 782 438 835 (D) 585	19 977 5 009 7 402 3 915 7 034	2 575 360 412 1 016 453	98 670 10 622 13 138 41 325 13 479	56 152 7 538 7 917 23 127 8 012	6 18 - -	19 12 -	8 23 13 - 39	Mo. Mont. Nebr. Nev. N.H.
139 209 19 544 282 493 (D) 12 022	77 792 13 876 147 163 39 138 7 369	14 997 (D) 28 107 (D) 1 157	2 996 682 5 664 981 187	4 058 803 7 497 1 764 351	33 295 10 559 64 607 21 442 5 326	3 961 783 7 216 2 312 *520	124 410 18 562 267 314 56 478 10 221	76 128 12 647 162 618 35 828 6 751	4 15 2 8 -	4 17 2 - 10	4	N.J. N. Mex. N.Y. N.C. N. Dak.
101 476 72 823 19 654 117 257 9 726	65 763 (D) 12 110 78 779 5 786	9 837 9 023 (D) (D) 1 478	2 446 1 886 868 3 731 309	5 455 (D) 958 3 335 173	31 262 27 113 6 450 34 557 2 276	4 527 2 266 1 125 4 969 476	165 760 71 505 40 242 159 057 12 149	103 435 41 668 24 374 98 527 7 503	5 6 9 5 14	4 5 - 14	14 14 8 25	Ohio Okla. Oreg. Pa. R.I.
(D) (S) 42 334 511 227 23 168	(D) (D) 38 212 292 833 16 767	(D) (D) 5 714 78 186 2 973	1 355 (D) 1 201 15 870 1 023	1 842 (D) 1 325 19 088 626	18 810 (S) 15 837 161 521 9 755	1 394 295 2 209 12 596 787	32 256 9 477 56 779 417 734 31 366	19 250 5 804 33 696 252 674 12 883	- 8 2 9	- 8 2 10	10 - 9 4 12	S.C. S. Dak. Tenn. Tex. Utah
8 194 78 486 38 836 13 323 (D) 14 855	5 852 41 588 24 938 8 169 20 479 10 953	1 070 8 291 3 507 (D) (D) 1 273	186 2 059 1 556 223 1 774 371	427 2 408 1 559 434 1 618 1 139	3 722 22 298 15 108 (D) 13 109 6 452	234 3 582 2 093 772 2 016 311	8 093 90 867 78 121 20 115 77 949 11 351	4 987 58 179 51 087 12 434 58 623 7 860	19 8 7 13 11	22 5 7 - 10	33 4	Vt. Va. Wash. W. Va. Wis. Wyo.

Table 2. Detailed Statistics for Establishments With Payroll: 1982 and Earlier Census Years

		.,						
ltem .							dard er (percer	
	1982	1977	1972	1967	1982	1977	1972	1967
Number of establishments in business during year	20 446	20 626	15 420	10 254	1	2	2	4
Number of establishments in business at end of year	19 839	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
Proprietors and working partners	5 536	11 192	9 253	6 195	3	3	3	5
All employees**	127 727	128 440	101 294	65 481	1	1	2	1
Construction workers:	04 600	00.400	70.740	40.054				
March	91 693 107 455 106 087	93 499 115 011 118 204	70 748 85 060 91 680	49 351 56 472 59 450	1	1	2 2 2 2	2 2 2 2
AugustNovember	95 737	103 153	77 909	53 492	1	1	2	2
Average	102 099	107 632	82 899	55 447	1	1	2	1
Other employees: March	25 458	19 445	17 370	9 718	1	1	2	3
					,		_	
Construction worker hours (thousands): January to March	35 072	(NA)	(NA)	(NA)	1_	(NA)	(NA)	(NA)
April to June July to September	41 825 42 692	(NA) (NA)	(NA) (NA)	(NA) (NA)	1	(NA) (NA)	(NA) (NA)	(NA) (NA) (NA)
October to December	38 014 157 604	(NA) (NA)	(NA) (NA)	(NA) (NA)	1	(NA) (NA)	(NA) (NA)	(NA) (NA)
		· ·	ì	` ′	·	(10.0)	(101)	(,,,,
Payroll, all employees	1 833 071 1 331 302	1 383 720 1 085 630	826 328 635 758	408 232 329 102	1	1	1 2	1
Payroll, other employees	501 769	298 090	190 570	79 189	1	1	2	2
First quarter payroll, all employees	410 028	282 804	(NA)	(NA)	1	1	(NA)	(NA)
Employer costs for fringe benefits	344 613	263 594	(NA)	(NA)	1	1	(NA)	(NA)
L'egally required expenditures	259 098 85 514	162 846 100 748	(NA) (NA)	(NA) (NA)	1	1	(NA) (NA)	(NA) (NA)
All business receipts	6 365 681	4 607 808	2 540 138	1 265 703	1	1	2	1
Total construction receipts	6 076 411 1 975 290	4 407 208 1 564 606	2 440 265 849 910	1 233 133 464 991	1	1	2 2	2
Land receipts ¹ Other business receipts	(NA) 289 270	(NA) 200 600	(NA) 99 873	(NA) 33 014	(NA) 2	(NA)	(NA)	(NA)
Net construction receipts†	5 620 493	4 128 771	2 264 658	1 159 420	1	1	2	1
Value added††	3 694 404	2 692 686	1 549 359	785 887	1	1	2	1
Selected payments	2 671 277 2 042 258	1 915 122 1 530 449	990 779 815 172	481 050 406 290	1	1	2 2	2 2
Construction work subcontracted to othersSelected power, fuels, and lubricants	455 918 173 100	278 437 106 236	175 607 (NA)	73 358 (NA)	2	2	(NA)	(NA)
Electricity	23 221 6 353	13 107 6 130	(NA) (NA)	(NA) (NA)		1 3	(NA) (NA)	(NA) (NA) (NA)
Gasoline and diesel fuel (including gasohol)	133 904	76 402	(NA)	(NA) (NA)	1 3	1 2	(NA) (NA)	(NA) (NA)
Other, including lubricating oils and greases	9 620	10 600	(NA)	(NA)	3		(NA)	(NA)
Storage capacity for fuels ³ (thousand gallons)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Rental payments for machinery, equipment, and structures	100 120 54 768	65 508 45 111	(NA) 23 975	(NA) 9 757	2 2 2	1	(NA)	(NA)
For structures	45 351	20 397	(NA)	(NA)	2	2	(NA)	(NA)
Selected purchased services	145 634	103 637	(NA)	(NA)	1	1	(NA)	(NA) (NA)
Communication services	57 027 9 761	36 157 5 335	(NA) (NA)	(NA) (NA)	3 2	2 2	(NA) (NA)	(NA) (NA) (NA)
Repairs to machinery and equipment	78 845	62 145	(NA)	(NA)	2	2	(NA)	(NA)
Ownership of construction projects: Total construction receipts	6 076 411	4 407 208	2 440 265	1 233 133	1	1	2	1
Government owned	498 410	545 730	446 471	(NA)	6	1	2 2	(NA) (NA)
Privately owned	5 578 000	3 861 478	1 993 794	(NA)				(AVA)

¹Data were collected separately for establishments classified in SIC 1531, Operative Builders and SIC 6552, Subdividers and Developers, Except Cemeteries. For all other Industries, data are included in other business receipts.

²For 1967 and 1972, Includes data for power, fuels, and lubricants.

³Data were collected only for establishments classified as heavy construction contractors.

Table 3. Assets, Capital Expenditures, and Depreciation for Establishments With Payroll: 1982 and Earlier Census Years

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

· Item							dard er (percer	
	1982	1977	1972	1967	1982	1977	1972	1967
STRUCTURES, MACHINERY, AND EQUIPMENT								
Beginning-of-year gross book value of depreciable assets Capital expenditures, other than land New Used Retirements and disposition of depreciable assets	1 058 714 124 049 89 241 34 808 40 502	(NA) 119 512 94 006 25 506 (NA)	(NA) 64 356 51 052 13 304 (NA)	(NA) 28 068 22 300 5 768 (NA)	2 2 2 4 5	(NA) 2 2 4 (NA)	(NA) 4 4 7 (NA)	(NA) 4 5 9 (NA)
End-of-year gross book value of depreciable assets	1 142 261	790 479	376 889	(NA)	2	1	3	(NA)
Depreciation charges during year	163 701	91 242	45 945	(NA)	2	1	3	(NA)
Structures, Additions, and Related Facilities								
Beginning-of-year gross book value of depreciable assets Capital expenditures, other than land New structures and related facilities Used structures and related facilities Retirements and disposition of depreciable assets	238 371 13 046 10 920 2 125 3 963	(NA) 12 855 10 046 2 809 (NA)	(NA) 13 525 6 772 6 753 (NA)	(NA) 4 919 2 898 2 021 (NA)	3 5 6 12 4	(NA) 6 5 8 (NA)	(NA) 13 13 13 (NA)	(NA) 10 8 13 (NA)
End-of-year gross book value of depreciable assets	247 454	149 916	83 146	(NA)	3	2	4	(NA)
Depreciation charges during year	18 442	8 140	6 656	(NA)	3	3	9	(NA)
Machinery and Equipment								
Beginning-of-year gross book value of depreciable assets	820 342 111 003 78 320 40 040 32 683 36 538	(NA) 106 658 83 961 46 730 22 697 (NA)	(NA) 50 831 44 280 (NA) 6 551 (NA)	(NA) 23 149 19 402 (NA) 3 747 (NA)	2 2 3 4 4 5	(NA) 3 2 2 4 (NA)	(NA) 5 4 (NA) 7 (NA)	(NA) 8 5 (NA) 11 (NA)
End-of-year gross book value of depreciable assets	894 807	640 563	293 743	(NA)	2	1	3	(NA)
Depreciation charges during year	145 259	83 102	39 289	(NA)	2	1	3	(NA)

Table 4. Value of Inventories for Establishments With Payroll: 1982 and 1981

ltem	Establishments with payroll	Relative standard error of estimate (percent)
All establishments:	20 446	
Total construction receipts	6 076 411	1
Establishments with inventories:	0.000	
Number Total construction receipts	6 362 3 164 712	1
Inventories1:		į
End of 1982, total	179 731 10 319	2
Amount of LIFO reserve	3 987	6
Value for establishments with no LIFO reserve	169 412	2
End of 1991 total	182 340	2
End of 1981, total	7 747	4
Amount of LIFO reserve	3 442	6
Value for establishments with no LIFO reserve	174 593	3
Establishments with no inventories:		
Number	14 084	1
Total construction receipts	2 911 699	1

¹ Inventories at cost or market prior to any adjustment to correct to LIFO values.

Table 5. Selected Statistics for Establishments With Payroll by Employment Size Class: 1982 and 1977

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

					Establishm	ents with an	average of-			
Selected statistics	Total	1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 employees or more
1982										
Number of establishments All employees** Payroll, all employees Construction worker hours (thousands) All business receipts Total construction receipts Net construction receipts†	20 446 127 727 1 833 071 157 604 6 385 681 8 076 411 5 620 493	13 426 25 946 253 414 32 096 1 151 770 1 116 821 1 035 829	3 970 25 940 320 598 30 665 1 233 989 1 190 131 1 084 161	2 001 26 299 373 934 30 898 1 305 668 1 241 819 1 144 228	859 25 235 410 950 30 339 1 359 733 1 294 820 1 187 101	123 8 385 172 630 11 599 489 232 469 616 440 138	51 7 778 147 802 10 142 420 649 381 510 359 359	3 686 80 143 5 503 192 817 185 210 369 677	4 458 73 800 6 359 212 023 194 683 (D)	1000000
Value added†† Payments for materials, components, supplies, and fuels Payments for construction work subcontracted to others Rental payments for machinery, equipment, and structures Capital expenditures, other than land End-of-year gross book value of depreciable assets	3 894 404 2 215 359 455 918 100 120 124 049 1 142 261	632 715 438 062 62 992 17 662 25 101 239 610	655 757 472 262 105 969 21 550 25 591 259 560	712 741 495 536 97 390 20 088 26 934 229 853	789 273 462 740 107 719 22 721 28 756 229 462	307 945 151 807 29 480 7 407 7 111 54 619	269 918 126 561 22 151 8 257 7 326 77 478	326 055 38 601 10 218 2 433 3 228 20 629	(D) 31 768 (D) (D) (D) 31 050	999999
1977										
All employees** Total construction receipts Value added††	128 440 4 407 208 2 692 686	26 614 829 308 489 106	25 684 819 275 478 985	28 663 967 787 576 149	25 044 965 434 562 185	10 075 369 943 244 933	7 657 302 052 198 524	4 703 153 411 122 805	-	999
1982 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)										
All employees**	1 1 2	2 2 6	3 3 8	2 2 5	2 1 2	% % % % %	333	888	(W) - -	=

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies.

Table 6. Selected Statistics for Establishments With Payroll by Receipts Size Class: 1982 and 1977

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

			Establishments with all business receipts of—									
Selected statistics	Total	Less than \$25,000	\$25,000 to \$49,999	\$50,000 to \$99,999	\$100,000 to \$249,999	\$250,000 to \$499,999	\$500,000 to \$999,999	to	\$2,500,000 to \$4,999,999	\$5,000,000 to \$9,999,999	\$10,000,000 or more	
1982												
Number of establishments All employees** Payroll, all employees Construction worker hours (thousands) All business receipts Total construction receipts Net construction receipts	20 446 127 727 1 833 071 157 604 8 365 681 8 078 411 5 820 493	000000000000000000000000000000000000000	000000000000000000000000000000000000000	3 410 8 492 67 497 9 514 250 718 244 918 233 562	5 391 22 090 236 955 25 960 874 873 850 737 799 609	2 707 20 266 257 930 23 743 943 307 911 867 849 417	1 636 21 431 316 212 26 518 1 123 816 1 074 435 991 167	838 19 724 349 191 25 215 1 252 342 1 186 048 1 066 426	209 10 221 206 683 13 115 1 792 486 686 678 833 736	72 17 046 360 402 24 723 (D) 997 329 930 327	* <u>000000</u>	
Value added††	3 894 404 2 215 359 455 918	(S) (S) (S)	(S) (S) (S)	145 818 93 543 11 356	492 954 330 790 51 128	515 502 365 354 62 450	608 104 432 243 83 268	700 414 432 306 119 621	429 379 513 508 52 942	729 655 (D) 87 002	(D) (D) (D)	
Rental payments for machinery, equipment, and structures	100 120 124 049 1 142 261	(S) (S) (S)	(S) (S) (S)	3 299 5 762 55 922	18 093 21 245 204 312	16 526 20 897 202 276	18 449 23 248 192 818	18 761 24 330 205 476	10 385 13 551 97 274	14 501 13 293 150 854	(D) (D)	
All employees** Total construction receipts Value added†† 1982 RELATIVE STANDARD ERROR	128 440 4 407 208 2 692 686	8 434 52 059 32 018	8 799 122 512 76 717	11 878 276 317 169 154	24 424 716 668 427 805	21 878 761 749 445 097	19 063 754 306 450 526	19 234 852 396 524 586	9 118 414 900 269 102	19 813 1456 303 1297 683	(NA) (NA) (NA)	
OF ESTIMATE (PERCENT) All employees** Net construction receipts† Capital expenditures, other than land	1 1 2	- - -	- - -	4 3 10	3 3 7	3 3 7	3 3 7	1 2 3	SSS	333	-	

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies.

Data for this size class include establishments with receipts of \$10,000,000 or more, which were not tabulated separately in 1977.

Table 7. Construction Receipts for Establishments With Payroll by Type of Construction: 1982 and 1977

	C	onstruction receipts		Relative	standard	d error of
Type of construction	Total	New construction ¹	Maintenance and repair	estim	ate (perce column-	
	А	В	С	А	В	С
1982						
Total construction receipts‡	8 078 411	4 334 899	1 741 512	1	1	1
Building construction	2 575 238 701 631 618 778 82 852 155 813 74 018 379 584 326 458 53 125 601 063 509 353 91 710 281 481 25 902 77 483 90 031 130 461 57 771	1 824 480 497 378 436 178 61 197 97 916 58 567 286 245 246 216 40 029 418 573 349 481 69 092 167 394 17 127 57 931 67 973 113 910 41 468	750 759 204 255 182 600 21 654 57 897 15 450 93 338 80 242 13 096 182 489 159 872 22 617 114 087 8 775 19 551 22 057 16 551 16 309	1 2 3 4 4 1 2 3 2 2 2 2 3 11 3 3 5 5 10 2	133535224223455435514	1 4 4 7 7 5 5 5 3 3 4 4 6 6 9 9 9 2
Highways, streets, and related facilities Outdoor swimming pools Fencing Sewers, water mains, and related facilities Sewage treatment and water treatment plants Blast furnaces, petroleum refineries, and chemical complexes Power plants Power plants, nuclear Power plants, except nuclear Other nonbuilding construction Construction work, n.s.k.	122 722 433 781 289 660 61 022 21 553 157 368 82 712 29 956 52 756 397 308	90 702 368 181 255 221 49 639 16 239 30 181 56 836 21 824 35 012 209 887	32 019 65 599 34 439 11 383 5 313 127 187 25 876 8 131 17 744 187 444	24355422536 1	25 46 63 72 32 7	26 56 99 51 4 99 58 1
Total construction receipts:	4 407 208	3 327 990	1 079 218	1	1	1
Building construction Single-family houses Apartment buildings with two or more apartments Other residential buildings Office and bank buildings Industrial buildings and warehouses	1 831 078 464 272 108 413 49 686 170 187 450 211	1 279 831 347 168 73 993 37 088 119 585 311 503	551 247 117 104 34 420 12 598 50 602 138 708	1 3 3 4 2 1	1 4 3 4 2 1	1 4 6 4 3 2
Stores, restaurants, public garages, and automobile service stations Religious buildings Educational buildings Hospitals and institutional buildings Amusement, social, and recreational buildings Other nonresidential buildings	256 091 29 824 109 184 98 208 47 037 47 965	139 812 18 508 87 482 73 129 34 435 37 128	116 279 11 316 21 702 25 079 12 602 10 837	2 2 2 2 5 7	232358	4 3 3 2 8 16
Nonbuilding construction Highways, streets, and related facilities Outdoor swimming pools Fencing Sewage treatment and water treatment plants Blast furnaces, petroleum refineries, and chemical complexes Power plants Other nonbuilding construction	1 882 292 91 535 735 049 373 698 44 199 162 597 71 282 403 932	1 481 400 79 178 669 517 329 306 38 990 47 601 46 558 270 250	400 892 12 357 65 532 44 392 5 209 114 996 24 724 133 682	13233152	13233253	1 5 3 4 10 1 10 3
Construction work, n.s.k.	693 904	566 566	127 338	2	3	2

¹For this industry, data for additions and alterations were not collected separately. These data are included with "New Construction."

Table 8. Selected Statistics for Establishments With Payroll by Specialization in Types of Construction: 1982

[Thousand dollars. Detail may not add to total due to rounding. This table presents selected statistics for establishments according to degree of specialization in major types of construction work. If number of establishments or total receipts for a given type of specialization are relatively insignificant, data may not be shown. In addition, data are not shown in this table where distribution of construction receipts by type of construction was not provided in table 7. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

construction receipts by type of construction was not provided in	11 (2010 7. 10	i meaning or at	ACIEVIAUCIIS AII	r		lext. For expir	anadon of tern	is, see appendi			
				Total Constru	ection receipts			Payments for construction	star	Relative dard e estima	PITOT
Item	Number of establish- ments	All employees**	Payroli, all employees	For all types	For specialized	Net construction receipts†	Value addedtt	work sub- contracted to others	(pe	rcent)	for
	A	В	С	all types	type	F	G	H	В	D	Н
All establishments	20 446	127 727	1 833 071	6 076 411	4 766 790	5 620 493	3 694 404	455 916	1	1	2
Establishments not specializing by type	1 899	19 731	336 812	1 047 215	(NA)	992 771	669 521	54 443	2	2	3 2
Establishments specializing 51 percent or more	18 547	107 996	1 496 259	5 029 196	4 766 790	4 627 721	3 024 882	401 474	1	1	2
SINGLE-FAMILY HOUSES, DETACHED All establishments specializing in type	3 122	13 655	148 120	575 666	511 056	522 367	308 279	53 298	3	3	
Establishments with-	0 122	10 000	140 120	3/3 000	311 030	322 307	300 273	33 280		3	Ů
100 percent specialization 90 to 99 percent specialization	1 498 537	5 909 2 464	63 101 27 559	249 351 122 672	249 351 113 560	226 787 104 755	134 855 56 991	22 564 17 917	5 8	8 7	13
80 to 89 percent specialization 70 to 79 percent specialization	296 498	1 891 1 911	21 642 19 450	74 061 74 418	81 026 54 845	68 154 70 536	43 980 39 251	5 906 3 880	9	7	18
60 to 69 percent specialization51 to 59 percent specialization	140 152	919 559	9 443 6 923	32 077 23 088	19 783 12 488	29 514 22 620	18 503 14 697	2 563 468	15	10 14	17
SINGLE-FAMILY HOUSES, ATTACHED											
All establishments specializing in type	212	1 101	11 100	34 058	27 612	30 062	18 981	3 996	16	13	19
Establishments with— 100 percent specialization	76	212	2 079	7 458	7 458	8 218	3 404	1 240	15	12	26
90 to 99 percent specialization 80 to 89 percent specialization	26	138	1 838 *1 047	6 179 *3 869	5 822 *3 116	8 026 *3 590	4 606 *1 706	*153 *278	15 23 37 33 42 48		26 41 51 31
70 to 79 percent specialization	22 62 *14	523 *48	3 659 *728	9 853 2 532	7 365 *1 519	7 840 2 532	5 194 *1 404	2 013	33	16 45 25 39 48	31
60 to 69 percent specialization51 to 59 percent specialization	*17	*93	*1 749	*4 166	*2 330	*3 855	*2 665	*311	48	48	64
APARTMENT BUILDINGS WITH TWO OR MORE APARTMENTS				400							
All establishments specializing in type	169	1 469	21 003	66 629	54 020	59 411	42 935	7 418	10	7	4
Establishments with— 100 percent specialization	70	509	6 324	15 918	15 918	15 101	11 704	817	16	17	17
90 to 99 percent specialization 80 to 89 percent specialization	*12 41	*87 179	*711 3 016	*2 063 12 693	*1 891 10 575	*1 862 9 867	*1 321 6 403	*201 2 826	63 18	48 11	70
70 to 79 percent specialization60 to 69 percent specialization	43 18	481 203	8 036 2 666	26 674 8 201	19 872 5 059	24 964 6 657	18 114 4 488	1 710 1 544	19 16	12 12	4
51 to 59 percent specialization OTHER RESIDENTIAL BUILDINGS	5	(S)	(S)	(S)	(S)	(S)	(S)	(S)	-	_	-
All establishments specializing in type	36	323	5 167	18 595	12 542	15 433	10 307	1 182	17	13	38
Establishments with—	36	323	5 107	10 383	12 342	15 455	10 307	1 102	"	13	36
100 percent specialization90 to 99 percent specialization	*13 *12	*90 *29	*799 *231	*3 484 *1 527	*3 484 *1 411	*2 903 *1 284	1 108 *736	(S) *243	50 60	57 55	71
80 to 89 percent specialization	*12 5 *3	74	1 205 (D)	4 222	3 377 (D)	3 960 (D)	2 918	262 (D)	60 23	11	7
60 to 69 percent specialization	1 4	(D) (D) 81	(D) 1 941	(D) (D) 5 715	(D) 3 128	(D) 5 659	(D) (D) 4 357	262 (D) (D) 56	(w)	(w)	(w)
INDUSTRIAL BUILDINGS							, 55.				
All establishments specializing in type	702	6 263	135 465	376 167	331 906	354 177	280 794	23 990	3	2	4
Establishments with—											
100 percent specialization 90 to 99 percent specialization	440 48	5 386 313	82 614 6 195	230 919 16 703	230 919 15 399	213 186 15 193	171 536 11 802	17 733 1 510	3 20	3 16	21
80 to 89 percent specialization	82 46	506 535	7 177 10 227	22 805 31 518	18 473 22 705	21 967 29 685	13 681 19 430	838 1 833	14 10	16 12 8	21 11
80 to 89 percent specialization51 to 59 percent specialization	72 14	(D) (D)	(D) (D)	(D) (D)		(D) (D)	(D) (D)	(D) (D)	-	-	=
OFFICE BUILDINGS								-			
All establishments specializing in type	233	3 740	80 222	207 868	153 510	199 719	154 454	6 148	3	3	12
Establishments with— 100 percent specialization	59	394	6 792	20 232	20 232	18 305	13 262	*1 927	11	14	46
90 to 99 percent specialization	17 65	298 5t1	8 881 11 687	15 917 30 803	14 709 24 964	15 682 28 569	14 800 19 248	235 2 234	t5 9	6 7	6 32
70 to 79 percent specialization	34 38	1 185 657	26 708 15 666	69 759 41 330	52 067 25 642	67 523 40 787	53 057 32 282	2 236 543	4 7 5	7 3 8	1 26 5
51 to 59 percent specialization	19	894	12 488	29 826	15 894	28 852	21 803	973	5	5	5
STORES, RESTAURANTS, PUBLIC GARAGES, AND AUTOMOBILE SERVICE STATIONS											
All establishments specializing in type	578	3 662	59 7 51	198 339	188 993	176 547	111 928	21 792	5	5	6
Establishments with — 100 percent specialization	452	2 843	47 577	157 t87	157 187	140 049	87 737	17 138	7	5	8
90 to 99 percent specialization	20 65	202 279	3 812 3 041	10 932 12 239	10 261 9 791	9 078	6 502 5 985	1 854 1 183	22 25	9 26	24 38 55
70 to 79 percent specialization	*20 *15	*70 207	*814	*6 337	*4 683	*6 174	*4 951 4 986	*163	45 8	71	55
80 to 69 percent specialization 51 to 59 percent specialization	3	81	(D)	(D) (D)	(D) (D)	(D) (D)	1 766	(D) (D)	(พ้)	-	-
EDUCATIONAL BUILDINGS	46	007	4.004	14 405	0.000	12 005	7 570	500	12	14	28
All establishments specializing in type Establishments with—	48	237	4 081	14 495	9 326	13 995	7 570	500	13	14	40
100 percent specialization 90 to 99 percent specialization	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-	-
80 to 89 percent specialization	3	33 (D)	563 (D)	2 053 (D)	1 642 (D)	2 025 (D)	t 440 (D)	28 (D)	27	27	32
80 to 69 percent specialization	*6 *7 28	8t 100	(D) 1 373 1 528	*3 250 4 759	(D) *1 950 2 817	*3 184 4 354	t 38 t 2 956	(D) *66 405	21	44 30	45 35
or to on porcont oppositional and a second a	, 20	, 1001	1 920 1	7 750	2017	7 004 1	2 330	403		00 1	00

Table 8. Selected Statistics for Establishments With Payroll by Specialization in Types of Construction: 1982—Con.

[Thousand dollars. Detail may not add to total due to rounding. This table presents selected statistics for establishments according to degree of specialization in major types of construction work. If number of establishments or total receipts for a given type of specialization are relatively insignificant, data may not be shown. In addition, data are not shown in this table where distribution of construction receipts by type of construction was not provided in table 7. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

construction receipts by type of construction was not provided in	TURDIO 7. FO	Able 7. For meaning of abbreviations and symbols, see introductory		ext. For explanation of terms, see appendix							
				Total constru	ction receipts			Payments for construction	stan	Relative	error
Item	Number of establishments	All employees**	Payroll, all employees	For all types	For specialized type	Net construction recelpts†	Value added††	work sub- contracted to others	(pe	estima ercent) olumn-	for
	A	В	С	D	Ε	F	G	н	В	D	Н
HOSPITALS AND INSTITUTIONAL BUILDINGS											
All establishments specializing in type	26	258	3 493	9 478	7 179	9 115	5 419	36 3	17	15	9
Establishments with—											
100 percent specialization 90 to 99 percent specialization 80 to 89 percent specialization 80 to 89 percent specialization 90 to 99 percent specialization 90 to 90 percent specialization 90 to 80 to	*13	130	1 559	3 074	3 074	2 717	2 399	357	20	25	9 -
70 to 79 percent specialization60 to 69 percent specialization	1 •2	(D) (D) -50	(D) *300	(0)	. (8)	000	(D) (D) *895	(D) (D)	-	-	=
51 to 59 percent specialization	*10	*50	*300	*2 000	*1 100	*2 000	*895	-	63	71	-
HIGHWAYS, STREETS, AND RELATED FACILITIES											
All establishments specializing in type	175	1 737	29 097	96 423	90 326	91 103	52 964	5 3 20	8	6	12
Establishments with—	155	1 330	19 811	66 245	66 245	62 492	34 852	3 753	8	7	17
100 percent specialization 90 to 99 percent specialization 80 to 89 percent specialization	*7	136 87	4 313 2 053	(D) 7 122	(D) 5 909	(D) 6 036	(D) 3 702	(D) 1 084	19 (W) (W)	88.	
70 to 79 percent specialization	•4	*100	1 461 1 659	5 165 (D)	3 866 (D)	4 847 (D)	5 589 (D)	318 (D)	(W) 45	(W)	(W)
or to so percent approximation		_									
OUTDOOR SWIMMING POOLS											
All establishments specializing in type	1 188	8 293	108 461	434 213	428 478	362 438	206 778	71 775	4	4	12
Establishments with— 100 percent specialization	1 081	7 643	101 721	403 369	403 369	337 701	191 830	65 668	4	4	13 60
90 to 99 percent specialization	23 66 •4	123 *348 *44	2 240 2 004 *444	13 585 8 830 *1 261	12 841 7 347 *882	9 869 8 280 *1 111	6 262 5 320 *367	*3 716 *550 *150	26 41 60	33 28 56 62 36	60 45
80 to 69 percent specialization 51 to 59 percent specialization	*5 9	*25 109	*485 1 567	*1 261 *2 290 4 878	*1 396 2 641	*1 315 *4 162	465 2 533	*975 716	57 29	62 36	45 56 56 20
FENONO											
FENCING											
All establishments specializing in type	1 108	6 820	79 081	278 913	275 820	269 131	152 591	9 782	5	5	7
Establishments with— 100 percent specialization 90 to 99 percent specialization	1 058 26	8 201 319	72 118 4 438	254 830 14 183	254 830 13 600	246 050 13 750	136 250 7 995	8 780 433	5 20	6 21	7 23
80 to 89 percent specialization	*12	*85 *190	*859 1 131	*2 581 5 223	*2 276 3 781	*2 537 4 881	*2 479 2 814	*44	53 53	55 38	56 58
60 to 69 percent specialization 51 to 59 percent specialization	3	24	535	2 096	1 131	1 913	1 053	183	26	21	24
SEWERS, SEWER LINES, AND RELATED											
FACILITIES											
All establishments specializing in type	35	209	2 604	8 769	7 181	8 455	5 919	314	26	23	32
Establishments with— 100 percent specialization	*10	(D) 85	(D)	(D)	(D) 2 773	(D)	(D) 2 076	(D)	_	_	-
90 to 99 percent specialization 80 to 89 percent specialization 70 to 79 percent specialization 90 to 90 percent specialization 90 percent specialization 90 percent specialization 90 percent	*13 1 *11	85 (D) 82	1 018 (D) 1 014	3 072 (D) 3 926	2 773 (D) 2 870	2 883 (D) 3 866	2 076 (D) 2 484	(D) *189 (D) *60	35	33	53
60 to 89 percent specialization 51 to 59 percent specialization	-	-	-		2 870			3-	-	-	-
BLAST FURNACES, PETROLEUM REFINERIES, AND CHEMICAL COMPLEXES											
All establishments specializing in type	86	3 772	81 037	156 783	140 233	149 262	133 692	7 521	3	4	1
Establishments with— 100 percent specialization	81	2 582	53 338	103 181	103 161	96 959	82 175	6 202	9	8	1
90 to 99 percent specialization	2 8	(D) 242	(D) 3 517	(D) 11 008	(D) 8 831	(D) 10 419	(D) 7 476	(D) 589	12	20	24
70 to 79 percent specialization 60 to 89 percent specialization 51 to 59 percent specialization 51	12	(D) 801	99	(D) 34 252	21 779	(D) 34 246	(D) 38 566	(D) 6	2	1 -	(w)
The second opening of the second seco	-			-			-				

Table 9. Quarterly Construction Worker Hours and Employment for Establishments With

		Average		January 1	to March	April to June			
Location of establishment	Number of establishments	number of construction workers	Construction worker hours (thousands)	Construction workers ¹	Hours worked (thousands)	Construction workers ¹	Hours worked (thousands)		
	Α	В	С	D	E	F	G		
United States	20 446	102 099	157 604	91 893	35 072	107 455	41 825		
Alabama Alaska Arizona Arkansas California	308	1 067	1 670	971	364	1 207	496		
	87	(S)	(S)	(S)	(S)	(S)	(S)		
	379	(D)	(D)	(D)	(D)	(D)	(D)		
	225	(D)	(D)	(D)	(D)	(D)	(D)		
	2 388	13 772	19 028	12 888	4 431	14 801	5 070		
Colorado Connecticut Delaware District of Columbia Florida	301	1 433	2 261	1 353	538	1 503	614		
	267	(D)	(D)	(D)	(D)	(D)	(D)		
	52	210	339	208	56	225	87		
	*18	(S)	(S)	(S)	(S)	(S)	(S)		
	1 591	7 450	11 799	7 335	2 885	7 692	3 125		
Georgia Hawaii Idaho Illinois Indiana	529	2 642	4 169	2 442	937	2 609	1 066		
	60	310	528	315	135	310	130		
	92	(D)	(D)	(D)	(D)	(D)	(D)		
	647	3 439	4 402	2 704	859	3 764	1 176		
	373	1 399	2 134	1 142	434	1 529	593		
lowa Kansas Kentucky Louisiana Maine	165	372	681	291	130	391	188		
	193	787	(D)	825	(D)	821	314		
	241	1 002	1 393	917	292	1 121	418		
	574	5 879	10 597	5 187	2 353	5 053	2 296		
	91	787	(D)	715	(D)	971	(D)		
Maryland	395	1 936	2 870	1 671	633	2 132	809		
	461	2 131	3 284	1 571	612	2 446	941		
	491	2 010	2 755	1 395	464	2 203	735		
	328	1 050	1 522	696	263	1 056	387		
	194	1 016	1 795	957	(D)	1 067	471		
Missouri Montana Nebraska Nevada New Hampshire	364	1 602	2 143	1 431	457	1 695	609		
	75	198	331	158	64	186	91		
	128	418	650	332	121	429	177		
	128	(D)	937	(D)	(D)	(D)	(D)		
	65	347	575	218	92	360	149		
New Jersey New Mexico New York North Carolina North Dakota	714	3 486	5 400	2 588	1 008	3 816	1 467		
	127	(D)	(D)	(D)	(D)	(D)	(D)		
	1 265	7 271	11 581	5 931	2 311	7 729	3 077		
	527	2 118	3 350	1 939	745	2 247	915		
	83	316	526	229	95	324	140		
Ohio Oklahorna Oregon Pennsylvania Rhode Island	606	2 913	4 174	2 494	903	3 076	1 116		
	399	2 018	2 878	2 035	694	2 174	780		
	185	539	726	463	152	581	200		
	700	2 888	4 288	2 393	860	3 176	1 180		
	115	265	424	210	95	310	125		
South Carolina South Dakota Tennessee Texas Utah	348	(D)	(D)	(D)	(D)	(D)	(D)		
	44	(S)	(S)	(S)	(S)	(S)	(S)		
	365	1 518	2 358	1 331	516	1 619	672		
	2 183	13 896	22 727	13 952	5 647	14 471	5 915		
	146	728	1 013	672	239	790	263		
Vermont	57	232	421	139	66	243	118		
	431	2 268	3 495	2 128	789	2 303	934		
	429	1 360	1 770	1 291	396	1 432	506		
	109	409	689	333	140	397	174		
	288	1 018	1 340	683	(D)	1 058	371		
	123	464	658	449	172	550	186		

¹Sum of construction workers during pay periods including 12th of March, May, August, and November.

Payroll by State: 1982

July to Se	ptember	October to [December											
Construction workers ¹	Hours worked (thousands)	Construction workers ¹	Hours worked (thousands)		Relative standard error of estimate (percent) for column—			Location of establish- ment						
н	1	J	К	В	С	D	Е	F	G	н	1	J	к	ment
106 087	42 692	95 737	38 014	(W)	(W)	1	1	1	1	1	1	1	1	U.S.
1 065 (S) (D) (D) 13 744	445 (S) (D) (D) 4 956	871 (S) (D) (D) 12 866	383 (S) (D) (D) (D) 4 570	11 - - 3	11 - - 2	13 - - - 3	14 - - 3	11 - - - 4	14 - - 3	11 - - - 2	13 - - 3	10 - - - 3	13 - - - 3	Ala. Alaska Ariz. Ark. Calif.
1 465 (D) 218 (S) 7 397	611 (D) 83 (S) 3 091	1 232 (D) 185 (S) 8 895	496 (D) 111 (S) 2 695	8 - 21 - 3	8 - 19 - 3	7 25 - 3	8 - 24 - 4	7 20 - 3	8 22 - 4	6 19 - 3	8 - 19 - 4	7 - 22 - 4	9 - 37 - 4	Colo. Conn. Del. D.C. Fla.
2 806 304 (D) 3 991 1 535	1 155 135 (D) 1 295 812	2 499 289 (D) 3 131 1 273	1 009 128 (D) 1 071 493	8 10 - 4 6	6 11 - 4 7	6 12 - 3 6	7 16 - 5 9	8 10 - 4 7	7 13 - 5 9	6 10 - 4 7	7 14 - 5 9	7 11 - 4 6	8 13 - 5 8	Ga. Hawail Idaho III. Ind.
404 769 1 047 5 047 929	186 (D) 385 2 405 (D)	325 652 803 7 314 424	175 (D) 295 3 542 (D)	15 10 15 2 7	17 - 11 2 4	17 11 16 3 6	24 - 14 2 5	14 12 13 3 6	20 13 14 3 4	16 11 17 2 6	21 - 14 2 4	17 11 16 1	23 - 14 1 10	lowa Kans. Ky. La. Maine
2 071 2 350 2 268 1 210 1 046	768 929 829 462 (D)	1 774 1 964 2 072 1 101 951	658 801 725 408 426	9 6 6 8 11	7 6 6 9 12	6 5 7 9 11	8 7 9 13 -	9 7 7 9 12	8 7 8 11 14	10 7 7 9 11	8 8 7 12 -	9 6 6 9 12	8 8 7 12 14	Md. Mass. Mich. Minn. Miss.
1 672 248 422 (D) 383	568 108 188 (D) 168	1 499 163 409 (D) 382	507 66 162 (D) 165	7 18 14 - 19	7 20 15 11 19	7 18 16 - 19	10 27 23 - 23	7 19 15 - 18	9 29 18 - 22	8 19 13 - 19	9 27 16 - 21	8 18 15 - 21	11 27 19 - 23	Mo. Mont. Nebr. Nev. N.H.
3 983 (D) 8 122 2 236 351	1 596 (D) 3 320 928 163	3 326 (D) 6 917 1 892 274	1 327 (D) 2 871 760 126	4 - 2 8 14	5 - 2 8 13	4 - 2 8 20	6 - 3 10 23	4 - 3 8 14	6 - 3 10 19	4 - 3 8 14	5 - 3 9 15	4 - 2 8 14	5 - 3 10 16	N.J. N. Mex. N.Y. N.C. N. Dak.
3 128 1 919 549 3 020 251	1 156 734 204 1 180 110	2 713 1 797 494 2 691 242	998 667 169 1 068 94	5 6 9 5 15	5 6 9 5 16	5 8 9 5 15	7 8 13 6 22	6 7 10 6 15	7 8 13 7 21	6 6 9 5 17	6 8 13 7 23	5 7 9 5 17	7 8 14 7 24	Ohio Okla. Oreg. Pa. R.I.
(D) (S) 1 543 14 116 784	(D) (S) 641 6 041 281	(D) (S) 1 389 12 434 590	(D) (S) 527 5 122 229	- 8 2 10	- 8 2 10	- 8 2 10	10 3 14	- 8 2 10	- 10 2 13	- 8 2 10	- 9 3 13	- 8 3 12	- 9 3 13	S.C. S. Dak. Tenn. Tex. Utah
300 2 389 1 430 440 1 138 460	137 956 495 194 398 174	221 2 118 1 097 423 1 050 328	99 815 372 180 (D) 125	19 6 7 13 12 15	22 6 8 14 10	26 6 7 11 13 19	37 8 11 16 -	19 6 8 13 12 17	24 8 11 16 12 17	21 6 9 17 13	24 7 12 21 12 17	17 6 8 17 14 15	25 8 11 20 -	Vt. Va. Wash. W. Va. Wis. Wyo.

Table 10. Construction Receipts for Establishments With Payroll by Location of Construction Work: 1982 and 1977

			1982							
Location of construction work	Construction	establishme	work done by hts located in State	establishmen	work done by ts not located State	1977 construction	Percent change 1982/	еггог (ре	ve stan of estir rcent) f	mate for
Eccation of constitution work	receipts for work done in this State	Number	Construction receipts	Number	Construction receipts	receipts for work done in this State	1977 (col A÷F)	C	olumn-	
	A	В	С	D	E	F	G	Α	C	Ε
United States	6 076 411	19 979	5 465 298	4 246	611 112	4 407 208	37.9	1	1	1
Alabama	58 007	300	46 904	94	11 102	41 980	38.2	9	12	9
	13 758	67	(D)	*9	(D)	18 214	-24.5	7	-	-
	129 586	375	126 944	30	2 842	104 804	23.6	5	6	8
	42 196	219	40 889	30	*1 306	24 485	72.3	20	20	42
	842 594	2 380	832 080	92	10 514	782 710	7.7	2	2	8
Colorado Connecticut Delaware District of Columbia Florida	99 633	299	85 071	92	14 561	62 528	59.3	5	6	5
	84 280	264	73 806	91	10 474	49 856	69.0	5	6	14
	31 636	51	10 543	66	21 093	9 362	237.9	9	13	11
	28 611	18	*2 307	139	26 304	13 791	107.5	5	41	4
	451 107	1 548	442 892	107	8 215	259 743	73.7	3	3	8
Georgia Hawaii Idaho Illinois Indiana	140 498	514	132 346	117	8 152	84 933	65.4	6	8	12
	23 121	59	20 109	22	3 012	39 408	-41.3	11	12	21
	17 393	92	12 431	76	4 962	16 772	3.7	16	18	35
	200 847	639	188 519	210	12 327	214 421	-6.3	4	4	8
	82 179	353	68 090	163	14 088	85 750	-4.2	7	8	14
lowaKansasKentucky	27 379	163	17 567	147	9 812	32 448	-15.6	12	18	20
	46 700	191	36 903	78	9 796	36 853	26.7	12	15	9
	50 119	234	39 042	165	11 076	35 796	40.0	9	11	16
	344 201	558	304 888	87	39 312	193 329	78.0	2	2	3
	47 504	85	39 600	50	7 904	15 677	203.0	7	5	36
Maryland	119 187	395	88 939	133	30 248	72 167	65.2	5	7	3
	172 069	459	132 157	135	39 911	84 989	102.5	5	6	5
	123 228	485	116 652	68	6 575	151 938	-18.9	6	6	15
	58 804	317	51 221	49	7 583	55 520	5.9	8	9	13
	47 106	178	36 886	79	10 219	34 487	36.6	9	12	10
Missouri	86 530	354	72 651	102	13 878	68 794	25.8	6	8	10
	14 510	74	9 782	21	4 727	19 463	-25.4	18	20	37
	22 347	128	19 384	20	*2 962	, 17-096	30.7	13	14	48
	46 420	126	39 964	49	6 456	44 302	4.8	10	11	10
	18 262	64	11 888	67	6 374	11 016	65.8	17	24	22
New Jersey	195 897	677	169 177	149	26 719	128 684	52.2	4	5	3
	36 670	126	31 855	52	4 815	21 383	71.5	15	17	9
	437 385	1 235	385 447	142	51 937	253 467	72.6	3	4	3
	96 357	512	85 482	86	10 874	58 153	65.7	7	8	9
	19 335	82	17 269	18	2 065	13 793	40.2	10	12	2
Ohio	159 230	569	148 283	96	10 947	157 050	1.4	4	5	4
	120 863	378	109 676	69	11 188	75 096	60.9	5	6	9
	30 131	180	28 793	37	1 337	46 904	-35.8	9	9	15
	175 584	673	156 307	145	19 277	137 277	27.9	5	6	9
	16 005	113	12 596	56	3 409	12 952	23.6	17	21	8
South Carolina South Dakota Tennessee Texas Utah	63 743	330	58 009	74	5 733	38 303	66.4	7	8	14
	8 007	44	(D)	15	(D)	10 756	-25.6	11	-	-
	80 777	364	76 169	60	4 608	63 029	28.2	8	8	12
	815 875	2 145	772 952	119	42 922	400 925	103.5	2	2	1
	37 489	141	33 867	15	3 621	30 578	22.6	12	9	25
Vermont Virginia Washington West Virginia Wisconsin Wyoming	14 895 124 462 67 457 24 972 49 724 31 717	55 423 428 99 284 119	11 365 104 653 62 525 16 847 45 079 21 367	31 139 54 122 81 88	3 529 19 808 4 932 8 125 4 644 10 349	8 580 78 387 68 836 28 502 75 360 16 820	73.6 58.8 -2.0 -12.4 -34.0 88.6	21 5 7 10 9	26 6 7 12 10 13	28 5 6 12 6 7

Table 11. All Business Receipts for Establishments With Payroll by Kind of Business Activity: 1982 and 1977

[Thousand dollars. Detail may not add to total due to rounding. Based on their primary business activity or combination of activities, establishments were classified into this specific industry. These establishments, however, may also be engaged in other kinds of business activities. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Primary and other kinds of business activities	All busines	Relative standard error o estimate (percent)		
	1982	1977	1982	1977
All kinds of business	6 365 681	4 607 808	1	1
General building contractor	40 773 211 014 17 387	213 781 31 813 (NA)	11 3 12	4 11 (NA) (NA)
Concrete contractor	30 572	(NA)	7	(NA)
	18 089	(NA)	11	(NA)
Excavating and earthmoving contractor Fencing contractor Insulation contractor Iron work contractor Masonry contractor, brickwork	11 481	(NA)	9	(NA)
	967 678	681 397	3	2
	34 501	(NA)	13	(NA)
	422 817	572 544	2	2
	18 201	(NA)	8	(NA)
Millwrigh1	35 570	39 425	13	9
	26 316	(NA)	5	(NA)
	10 769	(NA)	13	(NA)
	39 773	21 033	11	10
	17 473	(NA)	14	(NA)
Siding contractor Structural steel erection contractor Swimming pool contractor Water well drilling contractor Sandblasting contractor	10 708	(NA)	26	(NA)
	36 037	34 060	2	2
	989 630	726 713	2	2
	12 763	(NA)	22	(NA)
	109 388	66 352	4	5
Scaffolding construction contractor Drilling test borings for building construction contractor Retail trade Wholesale trade Other activities	43 253	86 540	4	1
	56 546	87 764	8	4
	103 956	82 802	3	3
	29 703	35 714	5	9
	3 071 283	1 624 266	8	1

Table 12. Profile of Establishments With Payroll in This Industry: 1982 and Earlier Census Years

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	1982	1977	1972	Relative standard error of estimate (percent) for 1982
AVERAGE PER ESTABLISHMENT				
Number of employees**	6.3	6.2	6.6	1
Number of construction workers	5.0	5.2	5.4	1
Number of all other employees	1.3	.9	1.1	1
Payroll, all employees\$1,000	89.7	67.1 52.6	53.6]
Construction worker wages	65.1 24.5	14.5	41.2 12.4	
00	24.5	14.5	12.4	
All business receiptsdo	311.3	223.4	164.7	4
Total construction receipts	297.2	213.7	158.3	1
Total construction receipts	108.4	79.4	52.9	1
Construction work subcontracted to others	22.3	13.5	11.4	ż
Capital expenditures, other than land	6.1	5.8	4.2	2
Gross book value of depreciable assets do-	55.9	38.3	24.4	2
AVERAGE PER EMPLOYEE				
Payroll, all employees	14.4	10.8	8.2	1
All business receiptsdo	49.8	35.9	25.1	1
Value added††do	28.9	21.0	15.3	1
AVERAGE PER CONSTRUCTION WORKER				
Construction worker wagesdo	13.0	10.1	7.7	1
Construction worker wages	59.5	41.0	29.4	1
Construction worker hours thousand_	1.5	(NA)	(NA)	1
AVERAGE PER OTHER EMPLOYEE				
Other employee salaries\$1,000	19.7	15.3	11.0	1
AVERAGE PER DOLLAR OF TOTAL CONSTRUCTION RECEIPTS	10	10.0		·
Payroll, all employees	.302	.314	.339	. 1
Payments for materials components supplies and fuels	.365	.371	.334	1
Payments for construction work subcontracted to others.	.075	.063	.074	2
Capital expenditures, other than land	.020	.027	.026	2
Rental payments for machinery, equipment, and structures	.016	.015	(NA)	2

Table 13. Selected industry Ratios for Establishments With Payroll by State: 1982

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

					Average per dollar of total construction receipts					
Location of establishment	Average number of employees** per estab- lishment	Payroll per employee (\$1,000)	Construction worker hours per construction worker (thousands)	Total construction receipts per construction worker (\$1,000)	Payroll, all employees	Payments for materials, components, supplies, and fuels	Payments for construction work sub- contracted to others	Capital expenditures, other than land	Rental payments for machinery, equipment, and structures	
United States	6.2	14.4	1.5	59.5	.302	.365	.0 75	.020	.016	
Alabama	(D) (S) (D) 7.3	(D) (S) (D) (D) 14.9	1.6 (S) (D) (D) 1.4	50.0 (S) (D) (D) 61.6	.267 (S) (D) (D) .308	.423 (S) (D) (D) (D)	.058 (S) (D) (D) .083	.028 (S) (D) (D) .019	.017 (S) (D) .013 .022	
Colorado Connecticut Delaware District of Columbia Florida	5.9 (D) 5.7 (S) 5.9	15.1 (D) 14.5 (S) 12.9	1.6 (D) 1.6 (S) 1.6	62.4 (D) 56.3 (S) 61.4	.302 (D) .365 (S) .263	00000 000000	.057 (D) .019 (D) .112	(D) (D) .016 (D) .017	(D) (D) .019 (D) .015	
Georgia Hawali Idaho Illinois Indiana	6.1 6.9 (D) 6.5 4.7	12.6 14.0 (D) 17.2 12.6	1.6 1.7 (D) 1.3 1.5	53.9 66.1 (D) 65.0 53.6	.287 .282 (D) .323 .296	(D) .389 (D) (D) .448	(D) .075 (D) .054 .067	.020 .019 (D) .018 .029	.014 .026 (D) .016 .020	
lowaKansasKentucky	2.6 (D) 5.0 12.0 9.6	(D) (D) 10.8 20.1 21.6	1.8 (D) 1.4 1.9 2.9	53.6 (D) 42.6 64.7 61.1	(D) (D) .302 .375 .409	(D) (D) .416 .296	.058 (D) .048 .048 .013	.006 (D) .019 .016	.010 (D) .010 .015	
Maryland	6.4 6.0 5.3 3.9 6.6	12.3 14.4 14.8 15.0 9.5	1.5 1.5 1.4 1.4 1.6	56.9 67.3 62.0 55.1 40.0	.284 .277 .310 .331 .300	.378 (D) (D) .313 .421	.077 .067 .071 (D) .061	.016 (D) .022 .020 (D)	(D) .013 .018 .011	
Missouri	5.6 3.3 (D) (D) (D)	12.7 11.3 (D) (D) 12.1	1.3 1.7 1.6 (D) 1.7	51.7 57.5 51.5 (D) 56.6	.312 .248 .271 (D) .293	(D) .322 .377 .396 .458	(D) .041 .056 (D) .057	.034 .038 .039 (D) .030	.010 .005 (D) (D) .014	
New Jersey New Mexico New York North Carolina North Dakota	6.0 5.9 7.4 4.6 (D)	16.3 12.5 14.6 (D) (D)	1.5 (D) 1.6 1.6 1.7	64.2 (D) 60.5 (D) 61.5	.312 (D) .316 (D) (D)	.348 (D) .334 (D) .379	.067 (D) .064 (D)	.016 (D) .017 (D) .018	.013 (D) .013 (D) .009	
OhioOklahoma	5.9 6.3 3.5 5.2 2.6	14.2 13.7 15.3 15.1 14.7	1.4 1.4 1.3 1.5 1.6	58.3 59.5 61.3 71.8 63.5	.297 .286 (D) .268 .262	.387 (D) (D) .380 .344	.058 .075 (D) (D)	.032 (D) (D) .016 .010	.014 .016 (D) .016 .018	
South Carolina South Dakota Tennessee Texas Utah	(D) (S) 5.1 7.9 6.2	(D) (S) 11.2 14.9 13.4	(D) (S) 1.8 1.6	(D) (S) 54.6 60.2 55.6	(D) (S) .252 .305 .301	(D) (D) .461 .350 .414	(D) (D) .069 .093 .073	(D) (D) .016 .023 .015	(D) (D) .014 .019 .025	
Vermont	5.2 8.6 4.0 4.3 4.5 4.4	12.1 14.5 11.6 14.6 13.1 12.3	1.8 1.5 1.3 1.7 1.3 1.4	60.0 54.4 47.6 48.7 51.4 56.5	.258 .338 .304 .346 .320 .255	.421 .337 .384 .310 .391 .418	.077 .051 .054 (D) (D)	.031 .020 .024 .022 .031 .043	.013 .017 .024 .011 .034	

APPENDIX A. Explanation of Terms

Construction—Is composed of three broad categories: (1) new construction, (2) additions and alterations, and (3) maintenance and repair. "New construction" includes the complete, original erection of structures and essential service facilities and the initial installation of integral equipment such as elevators and escalators. "Additions and alterations" includes construction activity making structural changes to existing facilities. "Maintenance and repair" includes the restoration of existing buildings or other structures or their service facilities, including the replacement of integral parts. Repainting, repapering, reroofing, etc., are also included.

Construction includes:

- special trade contracting such as electrical work, painting, and carpentering on mobile structures (trailers, mobile homes, and ships).
- support activities by construction contractors on mineral properties, except the following: sinking mine shafts; tunneling and shoring mines; erection, repairing and dismantling of drilling rigs; and building well foundations.
- the physical development of land for purposes other than agriculture.
- · demolition of existing structures.

Construction does not include:

- shipbuilding.
- manufacturing of other mobile structures.

Number of establishments in business during year—Includes all establishments that were in business at any time during the year. It covers all full-year and part-year operations. Construction establishments which were inactive or idle for the entire year were not included.

Number of establishments in business at end of year—Includes all full-year or part-year establishments that were in business at the end of 1982.

Proprietors and working partners—These data were not collected on the census report forms. The data shown are based on crediting each sole proprietorship establishment with one active proprietor and each partnership establishment with two working partners. The partnership factor was based on information received during a large-scale test conducted in prior years.

All employees—Comprised all full-time and part-time employees on the payrolls of construction establishments who worked or received pay for any part of the pay period including the 12th of March, May, August, and November. Included are all persons on paid-sick leave, paid holidays, and paid vacations during these pay periods. Officers of corporations are included, but proprietors and partners of unincorporated firms are excluded.

Total employment is calculated for each establishment and is derived by summing the construction workers data reported for March, May, August, and November, dividing by 4 and adding to it the number of other employees reported for March.

This approach was designed to simplify the questionnaire format and the reporting requirements of respondents. The industry average of these four selected pay periods approximates very closely the average employment for the year that would be obtained by using pay periods in all 12 months for almost all of the construction industries.

Construction workers—Includes all workers up through the working supervisor level directly engaged in construction operations, such as painters, carpenters, plumbers, and electricians. Included are journeymen, mechanics, apprentices, laborers, truck drivers and helpers, equipment operators, and on-site record keepers and security guards. Supervisory employees above the working supervisor level are excluded from this category but are included in the "other employees" category.

Other employees—Includes employees in executive, purchasing, accounting, personnel, professional, technical activities, and routine office functions. Also included are supervisory employees above the working supervisor level.

Construction worker hours—Includes the total number of hours worked by construction workers. Construction worker hours were collected for each of the four quarters of 1982 and are published in the detailed statistics tables.

Payroll—Includes the gross earnings paid in the calendar year 1982 to all employees on the payroll of construction establishments. It includes all forms of compensation, such as salaries, wages, commissions, dismissal pay, bonuses, vacation and sick-leave pay, prior to such deductions as employees' Social Security contributions, withholding taxes, group insurance, union dues, and savings bonds. The total includes salaries of officers of these establishments, if a corporation, but excludes payments to the proprietor or partners, if an unincorporated concern.

Payroll data were collected and tabulated for the employment categories described above and separately for the first quarter of 1982.

Payroll data for auxiliary establishments of multiestablishment companies are not included in these totals. Selected data for these types of establishments are found in the industry summary report and the 1982 Enterprise Statistics reports.

Employer costs for fringe benefits—Represents expenditures made by the employer during 1982 for legally required and voluntary fringe benefit programs for employees. These include employers' Social Security contributions, unemployment compensation, workers' compensation, State temporary disability payments, union negotiated benefits, life insurance premiums, pension plans, insurance premiums on hospital and medical plans, and welfare plans.

All business receipts—Includes all receipts from general contracting, special trade contracting or subcontracting, and land development and improvement work. It also includes all receipts from the sale of land (not recorded as fixed assets of the reporting establishments) and buildings built for sale. All other receipts from the reporting establishment's other business operations (rental of equipment to others, wholesale or retail sales, etc.) are also included.

Money obtained during the year in the form of construction loans is not treated as receipts, nor is money realized from the sale or other disposition of the establishment's fixed assets.

Also excluded are receipts from operations in foreign countries and nonoperating income such as interest and dividends.

All business receipts are broken down in the following detail:

Total construction receipts—Includes all receipts during 1982 for construction work performed by general contractors, special trades contractors or subcontractors, and for land development and improvement work. Included are receipts for maintenance and repair construction work, as well as for new construction and additions and alterations. Also included is the value of any construction work done by the reporting establishments for themselves.

Builders were instructed to include in this item their 1982 receipts from the sale of buildings and other structures built for sale, excluding from these receipts the value of the land (see "land receipts" below) but including the value of any improvements an establishment made to the land. Builders who traded a new home or other building for an existing one were to include the estimated value of the trade-in.

Also included in construction receipts were fees received as sponsors of joint ventures and fees received as agents for owners (for construction work).

Excluded were receipts for separately definable architectural and engineering work done by the reporting establishment for others and receipts from the rental of equipment to others (see "other business receipts" below).

Establishments engaged in the sale and installation of such construction components as plumbing, heating, and central air conditioning supplies and equipment; lumber and building materials; paint, glass, and wallpaper; and electrical and wiring supplies for construction purposes were instructed to include as construction receipts both the receipts for the installation and the receipts for the value (selling price) of the items installed. (Receipts for the selling price of items sold but not installed were to be included in "other business receipts.")

Receipts for work subcontracted in from others—Covers receipts during 1982 for work done by reporting establishments for other construction contractors or builders. Establishments were asked to report the approximate percent of total construction receipts accounted for by such work, and the percentages reported were applied to the reported construction receipts to develop a value for this item.

Land receipts—Includes receipts from the sale of land, whether held for sale or sold in connection with the sale of houses and other structures. It excludes the value of any improvements made to the land prior to the sale. (That value was to be included in construction receipts.)

Other business receipts—Includes business receipts not reported as construction receipts or land receipts. The item includes business receipts from retail and wholesale trade, rental of equipment, manufacturing, transportation, legal service, insurance, finance, rental of property and other real estate operations, and other nonconstruction activities. Receipts for separately definable architectural and engineering work for others are also included here.

Net construction receipts—Derived for each establishment by subtracting the payments made for construction work subcontracted to others from the total construction receipts. (For a further explanation, see "Duplication of Receipts" section in the Introduction.)

Value added—Derived for each establishment, value added is equal to all business receipts, less payments for construction work subcontracted to others and payments for materials, components, supplies, and fuels. For SIC 6552 and SIC 1531, for which land receipts are significant, value added is modified to be equal to all business receipts less land receipts; payments for construction work subcontracted to others; and payments for materials, components, supplies, and fuels. (For a further explanation, see "Duplication of Receipts" section in the Introduction.)

Selected payments—Represents the total of payments for materials, components, and supplies; payments for construction work subcontracted to others; and payments for selected power, fuels, and lubricants. Capital*expenditures and rental payments for machinery, equipment, and structures are shown elsewhere.

Payments for materials, components, and supplies include:

- total payments made by the reporting establishments during 1982 for the purchase of all materials, components, and supplies, except fuels, used for construction. (Supplies include expendable tools charged to current accounts.)
- freight and other direct charges incurred by the reporting establishment in acquiring the materials, components, and supplies are also included, as are the value of materials, components, and supplies obtained from other establishments of the respondent's company. Payments represent the amount paid after discounts.
- payments for materials, components, and supplies used by the reporting establishments in the construction of new plants or equipment for themselves, which are chargeable to their fixed assets accounts, are included in this item as are payments for materials bought and resold to others.
- payments made for direct purchases of materials, components, and supplies even though the purchases were subsequently provided to subcontractors for their use.

Payments for materials, components, and supplies include only payments for physical goods and represent the amount paid after discounts.

Excluded from this item are:

- services such as advertising, telephone, telegraph and cable, insurance, developmental and research services of engineering, management, marketing, and other professional consultants, unless their costs are included in the prices paid for materials.
- overhead items such as depreciation charges against plant and equipment, rent and rental allowances, interest payments, royalties, patent fees, payments for land, rental of construction machinery or equipment, and construction work let out to other construction contractors.
- materials furnished to contractors by the owners of projects.

Payments for construction work subcontracted to others include:

- all payments made during 1982 for construction work subcontracted out to other construction contractors.
 General contractors were instructed to include payments to subcontractors. Builders were instructed to include payments made to general contractors and also payments made directly to subcontractors.
- special trade contractors were instructed to include payments made to other subcontractors. The payments made by the reporting establishment for its purchases of materials, components, and supplies are not included here, even if they were provided to a subcontractor for his use. Such purchases are reported under a separate category, "payments for materials, components, and supplies." However, if payments to subcontractors covered materials purchased directly by the subcontractors, then the total of such payments (including material charges) should have been reported in this item.

Excluded from this item are:

 payments made for the rental of construction machinery or equipment.

Payments for selected power, fuels, and lubricants include:

- payments made for fuels, lubricants, and electric energy purchased during the year from other companies, or received from other establishments of the parent company.
- payments made for natural and manufactured gas, fuel oil, coal and coke products, etc.

Dollar amounts include freight and other direct charges.

Storage capacity for fuels—Data for storage capacity for fuels were collected from heavy construction contractors, other than building construction contractors. Data are published in the detailed statistics tables for the heavy construction industries, i.e., SIC 1611, SIC 1622, SIC 1623, and SIC 1629.

Rental payments for machinery, equipment, and structures—Includes all payments made during 1982 for renting or leasing construction machinery and equipment, transportation equipment, production equipment, office equipment, furniture and fixtures, scaffolding, office space, and buildings. It excludes payments for the rental of land. It also excludes payments made under agreements which, in effect, are conditional sales contracts and which, as a result, are capitalized. Such payments are included in "capital expenditures." It also excludes payments made under agreements which, in effect, are true subcontract construction arrangements; such payments are included in payments for "construction work subcontracted to others."

Selected purchased services—Includes all payments made during 1982 for communication services purchased from other companies or from other establishments of the parent company. It also includes the cost of all repairs made to structures and equipment by outside firms, or from other establishments of the parent companies. It includes only the cost of that repair necessary to maintain property and equipment. It excludes the cost of improvements that increases the value of property, or the cost of adapting it for another use.

Fixed assets and depreciation—Refers to the value of all fixed tangible assets such as buildings and other structures (offices, shops, etc.); stationary machinery (generators, shop equipment, etc.); mobile machinery (tractors, trucks, etc.); and other equipment (office furniture and fixtures, etc.). Not included are such items as current assets, depletable assets, intangible assets, and nondepreciable assets.

Data on fixed assets and depreciation were collected separately for: (1) structures, additions, and related facilities; (2) machinery and equipment; and (3) the total of both.

Respondents were asked to report the gross book valueacquisition cost (original cost or other basis) at the beginning and at the end of 1982. They were also asked to report capitalized expenditures, depreciation charges, and the gross value of assets sold, retired, scrapped, destroyed, etc., during 1982.

Capital expenditures — Refers to all costs actually incurred during 1982 which were or would be chargeable to the fixed assets accounts of the reporting establishments and which were of the type for which depreciation accounts are ordinarily maintained. These expenditures cover the acquisition, the construction, and the major alteration of the reporting establishment's own buildings and other structures, whether purchased, constructed under contract, or constructed by the reporting establishment's own forces; and the acquisition of machinery and equipment. Included are payments made under agreements which, in effect, are conditional sales contracts and which, as a result, are capitalized.

Respondents were instructed not to include any expenditures actually made prior to, or after 1982. For example, if they began construction of a building for an establishment's own use before 1982 and did not complete it until after 1982, they were to report only those costs actually incurred during 1982.

If capital expenditures were not recorded directly at the establishment level but handled centrally at the company or division level, respondents were requested to report appropriate estimates for the individual establishments.

- New structures and related facilities—Includes the total expenditures during 1982 for new buildings and structures, major additions and alterations to buildings and structures, and other facilities for the reporting establishment's use (such as roads, docks, tracks, parking lots, and fences). It excludes expenditures for land.
- New machinery and equipment—Includes expenditures for new machinery and new equipment. This item also includes capitalized repairs and improvements to used machinery and equipment.
- New automobiles and trucks intended primarily for highway use—Includes expenditures for new automobiles and trucks and capitalized repairs and improvements to used automobiles and trucks.
- Used structures and related facilities Covers expenditures for used structures and related facilities acquired from others.
- Used machinery and equipment—Includes expenditures for used machinery and equipment acquired from others, including automobiles and trucks.
 Capitalized repairs and improvements to such equipment are reported as new machinery and equipment.

Value of inventories—Includes all of the materials and supplies that are owned and located within the United States. Excludes materials which are owned by others, but held by the reporting establishment.

Inventories of multiestablishment companies were instructed to be reported by the establishment that is responsible for the inventories even if these inventories were held at a separate location.

Establishments building structures on their own land for sale (operative builders) were instructed to include the value of materials on hand at the end of the year but not to include the structures not yet sold or under construction.

Land subdividers and developers were instructed to include the value of materials on hand at the end of the year, but not include land not yet sold or under construction.

Ownership of construction projects—This item shows the distribution of construction receipts by ownership of the project—Government owned or privately owned. This classification relates to the ownership of the projects or work undertaken and not to the financing. Government owned projects cover those owned by the Federal, Commonwealth, or local governments including public authorities and special districts.

Types of construction—This item provides data by the types of buildings, structures, or other facilities being constructed or worked on by construction establishments in 1982. Respondents were instructed that each building, structure, or other facility should be classified in terms of its function. For example, a restaurant building was to be classified in the restaurant category whether it was designed as a commercial restaurant building or an auxiliary unit of an educational institution. However, complex projects consisting of two or more types of buildings, structures, or other facilities are difficult to classify because sufficient information is seldom available. Therefore, respondents were told to classify complex projects by the major function of the total complex.

In addition, heavy construction contractors and special trade contractors were requested to report the percentage of construction receipts derived from new construction work, including additions and alterations, and from maintenance and repair work for each of these types. General building contractors were requested to report the percentage of construction receipts derived from new construction work, from additions and alterations, and from maintenance and repair work for each of these types. See the definition of "Construction" for the meanings of new construction, additions and alterations, and maintenance and repair.

Building construction:

- Single-family houses, detached Includes all residential buildings constructed for one family use.
- Single-family houses, attached (includes townhouses)—Includes all residential buildings with two or more living quarters side by side, completely independent of one another, and separated by an unbroken party or lot line wall from ground to roof.
- Apartment buildings with two or more apartments— Includes high-rise, low-rise, or any structures other than containing two or more housing units.
- Other residential buildings Includes hotels, motels, dormitories, and other nonhousekeeping residential structures.
- Bank buildings and other financial institutions— Includes all buildings which are used primarily to house banks or other financial institutions.
- Warehouses—Includes commercial warehouses, cold storage plants, grain elevators, miniwarehouses, and other storage buildings.
- Farm buildings, nonresidential—Includes nonresidential farm buildings such as barns, poultry houses, implement sheds, and farm silos.
- Industrial buildings—Includes all industrial buildings and plants which are used to house production and assembly activities. Note that heavy industrial facilities such as blast furnaces, petroleum refineries, chemical complexes, etc., are NOT included in this category, but are shown under nonbuilding construction.
- Office buildings—Includes all buildings which are used primarily for office space or for government administrative offices.
- Other commercial buildings such as stores, restaurants, and automobile service stations— Includes all buildings which are intended for use primarily in the wholesale, retail, and service trades.
 For example, complete shopping centers, department stores, drug stores, restaurants, public garages, and auto service stations.
- Religious buildings Includes all buildings which are intended for religious services or functions, such as churches, synagogues, convents, monasteries, and seminaries.

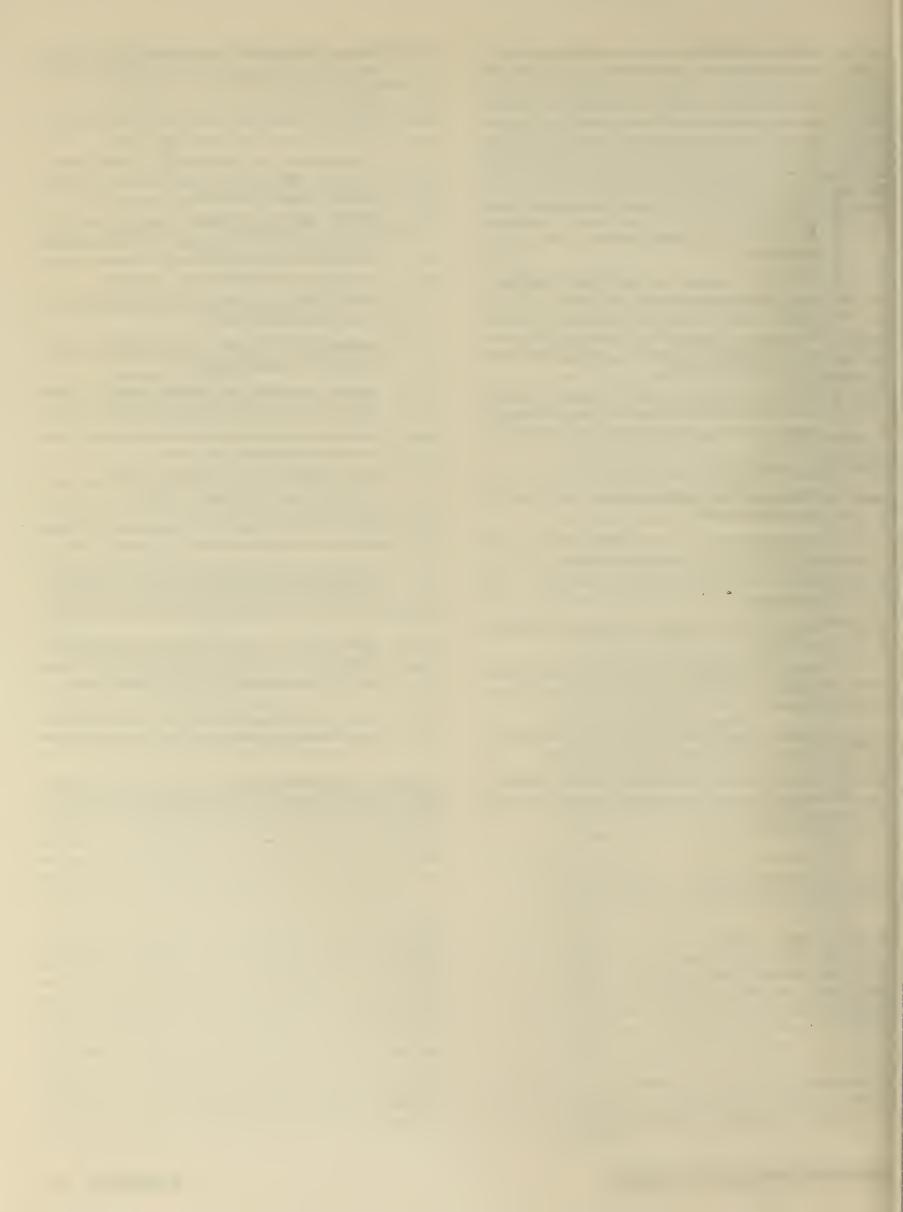
- Educational buildings—Includes all buildings which are used directly in administrative and instructional activities, such as colleges, universities, elementary and secondary schools, correspondence, commercial, and trade schools. Libraries, museums and art galleries, as well as laboratories which are not a part of a manufacturing establishment, are also included.
- Hospitals and institutional buildings—Includes all buildings which are intended to provide hospital and institutional care, such as clinics, infirmaries, sanitariums, nursing homes, homes for the aged, and orphanages.
- Amusement, social, and recreational buildings—
 Includes buildings which are used primarily for entertainment, social, and recreational activities, such as sports arenas, theaters, music halls, golf and country club buildings, skating rinks, bowling alleys, and indoor swimming pools.
- Other nonresidential buildings—Includes buildings which are not classified elsewhere, such as fire stations, bus and air passenger terminals, hangars, etc.

Nonbuilding construction:

- Outdoor swimming pools—Includes wading pools and reflecting pools.
- Elevated highways—Includes roads, highways, and causeways built on structural supports.
- Bridges—Includes viaducts, trestles, and overpasses.
- Tunnels—Includes highway, pedestrian, and railway tunnels, etc.
- Railroad construction—Includes the construction of railroad beds, tracks, freight yards, and signal towers.
- Subway construction—Includes urban mass transit subway systems above or below ground.
- Dam and reservoir construction—Includes hydroelectric, water supply, and flood control dams and reservoirs.

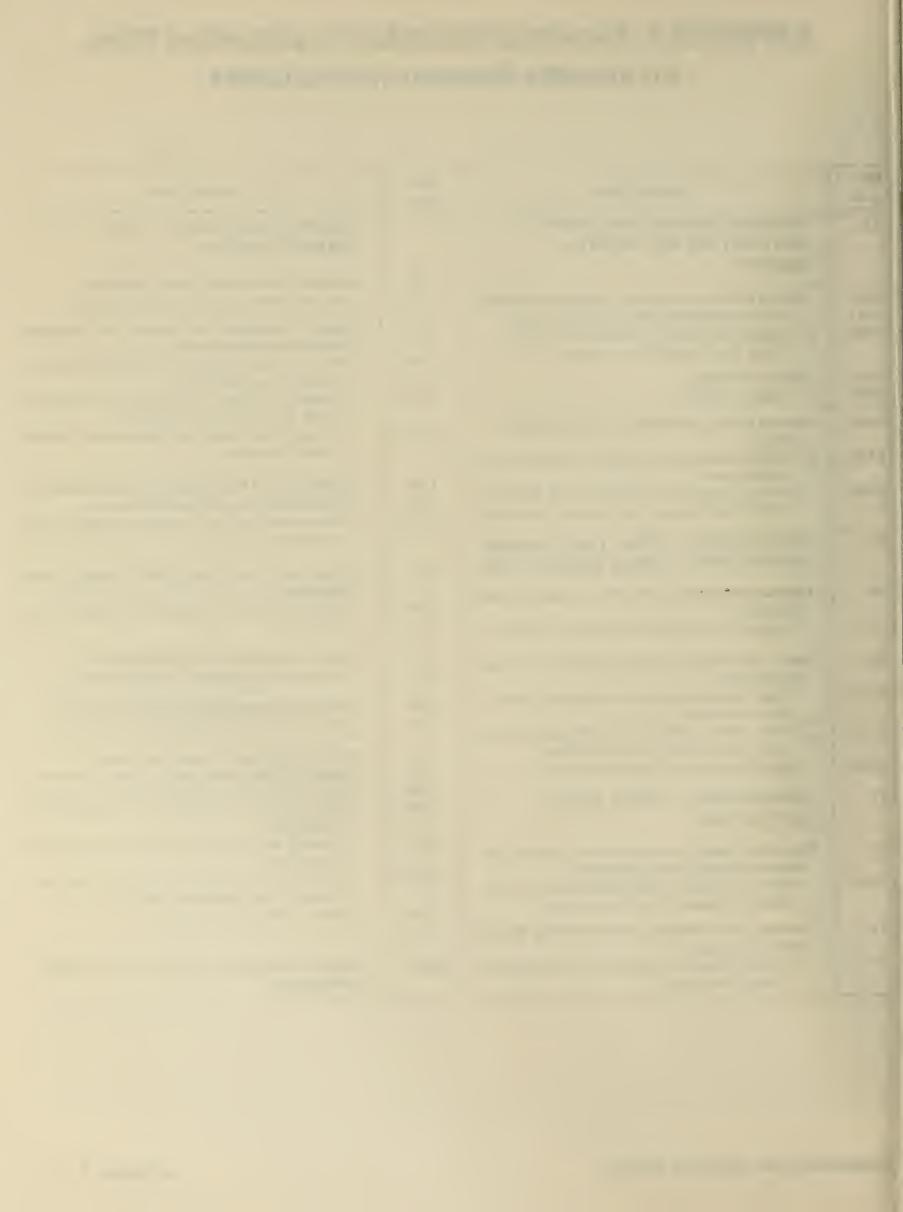
- Marine construction—Includes dredging, underwater rock removal, breakwaters, navigational channels, jetties, and locks.
- Harbor and port facilities—Includes docks, piers, and wharves.
- Conservation and development construction— Includes land reclamation, irrigation projects, drainage canals, dikes, and levees.
- Power and communication transmission lines, towers, and related facilities—Includes telephone and telegraph lines, television and radio towers, electric light and power facilities.
- Power plants, except nuclear—includes electric and steam generating plants.
- Power plants, nuclear—Includes atomic energy plants and nuclear reactors.
- Sewers, sewerlines, and related facilities—includes sanitary and storm sewers and related facilities.
- Sewage treatment plants—Includes sewage treatment and waste disposal plants.
- Water mains and related facilities—Includes water supply systems and related facilities.
- Water treatment plants—Includes water filtration and water softening plants.
- Pipeline construction other than sewer or waterlines—Includes pipelines for the transmission of gas, petroleum products, and liquefied gases.
- Blast furnaces, petroleum refineries, chemical complexes, etc.—Includes coke ovens, and mining appurtenances such as tipples and washeries.
- Other nonbuilding construction—Includes all types of nonbuilding construction, not included elsewhere.

Location of construction work—This item includes data for each State in which respondents engaged in construction work and the extent (percent of construction receipts) of that work.



APPENDIX B. Standard Industrial Classification Titles for Industry Groups and Industries

SIC code	Industry titles	SIC code	Industry titles
15	BUILDING CONSTRUCTION—GENERAL CONTRACTORS AND OPERATIVE	17	CONSTRUCTION—SPECIAL TRADE CONTRACTORS—Con.
	BUILDERS		
		173	Electrical Work Special Trade Contractors
152	General Building Contractors — Residential Buildings	1731	Electrical Work Special Trade Contractors
1521	General Contractors — Single-Family Houses	174	Masonry, Stonework, Tile Setting, and Plastering
1522	General Contractors — Residential Buildings,	''4	Special Trade Contractors
	Other Than Single-Family Houses	1741	Masonry, Stone Setting, and Other Stonework
153	Operative Builders	17.1	Special Trade Contractors
1531	Operative Builders	1742	Plastering, Drywall, Acoustical and Insulation
			Work Special Trade Contractors
154	General Building Contractors—Nonresidential	1743	Terrazzo, Tile, Marble, and Mosaic Work Specia
	Buildings		Trade Contractors
1541	General Contractors - Industrial Buildings and		
4540	Warehouses	175	Carpentering and Flooring Special Trade Contractor
1542	General Contractors—Nonresidential Buildings,	1751	Carpentering Special Trade Contractors
	Other Than Industrial Buildings and Warehouses	1752	Floor Laying and Other Floorwork Special Trade
16	CONSTRUCTION OTHER THAN BUILDING		Contractors, N.E.C.
	CONTRUCTION—GENERAL CONTRACTORS	176	Roofing and Sheet Metal Work Special Trade
161	Highway and Street Construction, Except Elevated		Contractors
	Highways	1761	Roofing and Sheet Metal Work Special Trade
1611	Highway and Street Construction Contractors		Contractors
		4	
162	Heavy Construction, Except Highway and Street	177	Concrete Work Special Trade Contractors
2-	Construction	1771	Concrete Work Special Trade Contractors
1622	Bridge, Tunnel, and Elevated Highway Construc-	178	Water Well Drilling Special Trade Contractors
	tion Contractors	1781	Water Well Drilling Special Trade Contractors
1623	Water, Sewer, Pipe Line, Communication and	1701	Trace contractors
	Power Line Construction Contractors	179	Miscellaneous Special Trade Contractors
1629	Heavy Construction Contractors, N.E.C.	1791	Structural Steel Erection Special Trade Contractors
47	CONCERNATION OPERAL TRADE	1793	Glass and Glazing Work Special Trade Contractors
17	CONSTRUCTION—SPECIAL TRADE	1794	Excavating and Foundation Work Special Trade
	CONTRACTORS		Contractors
171	Plumbing Heating (Execut Floration and A: O.	1795	Wrecking and Demolition Work Special Trade
171	Plumbing, Heating (Except Electric), and Air Con-		Contractors
1711	ditioning Special Trade Contractors	1796	Installation or Erection of Building Equipment
.,,,	Plumbing, Heating (Except Electric), and Air Conditioning Special Trade Contractors		Special Trade Contractors, N.E.C.
	ditioning Special Trade Contractors	1799	Special Trade Contractors, N.E.C.
172	Painting, Paper Hanging, and Decorating Special		
	Trade Contractors		
1721	Painting, Paper Hanging, and Decorating Special	6552	SUBDIVIDERS AND DEVELOPERS, EXCEPT
	Trade Contractors		CEMETERIES



APPENDIX C. Geographic Divisions and States

NEW ENGLAND STATES

Connecticut
Maine
Massachusetts
New Hampshire
Rhode Island
Vermont

MIDDLE ATLANTIC STATES

New Jersey New York Pennsylvania

EAST NORTH CENTRAL STATES

Illinois Indiana Michigan Ohio Wisconsin

WEST NORTH CENTRAL STATES

Iowa Kansas Minnesota Missouri Nebraska North Dakota South Dakota

SOUTH ATLANTIC STATES

Delaware District of Columbia Florida Georgia Maryland

SOUTH ATLANTIC STATES-Con.

North Carolina South Carolina Virginia West Virginia

EAST SOUTH CENTRAL STATES

Alabama Kentucky Mississippi Tennessee

WEST SOUTH CENTRAL STATES

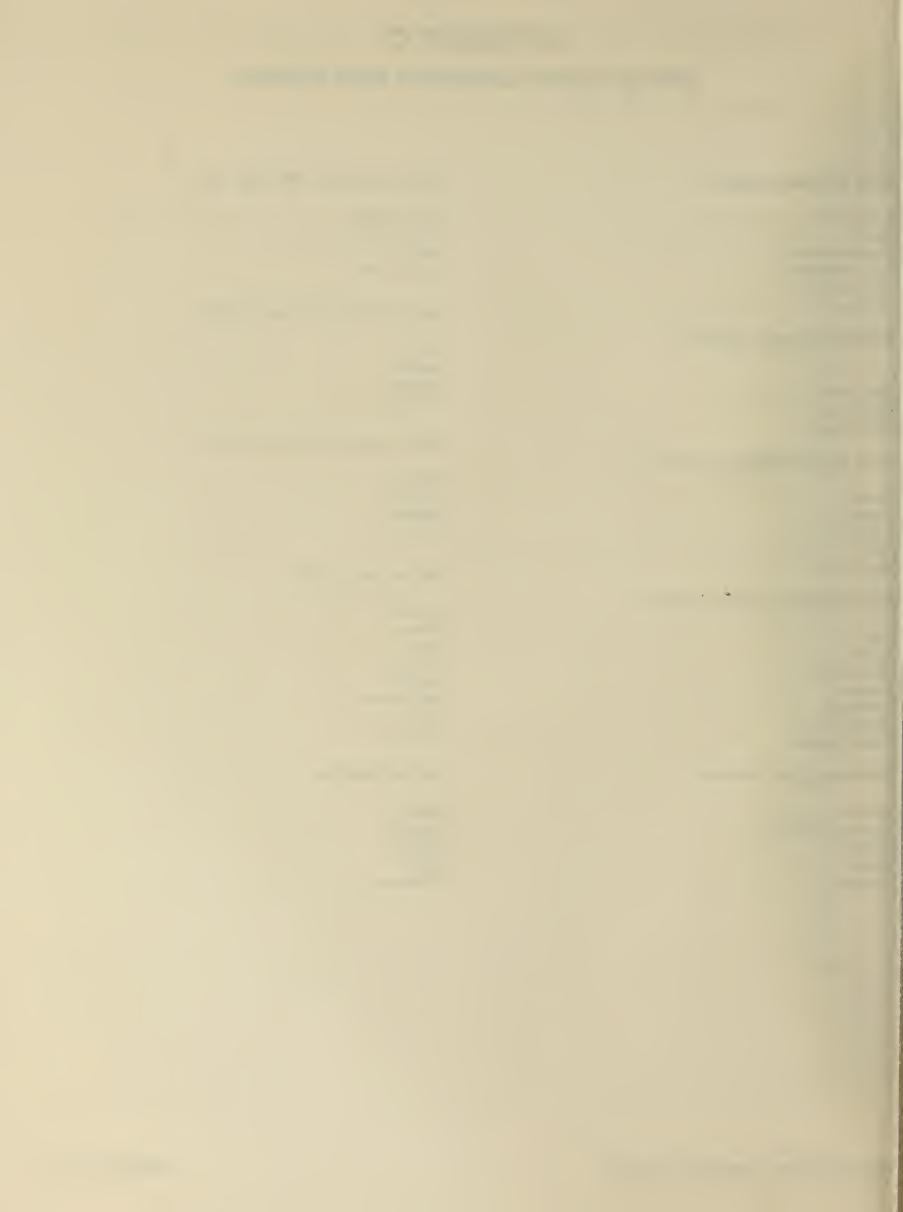
Arkansas Louisiana Oklahoma Texas

MOUNTAIN STATES

Arizona
Colorado
Idaho
Montana
Nevada
New Mexico
Utah
Wyoming

PACIFIC STATES

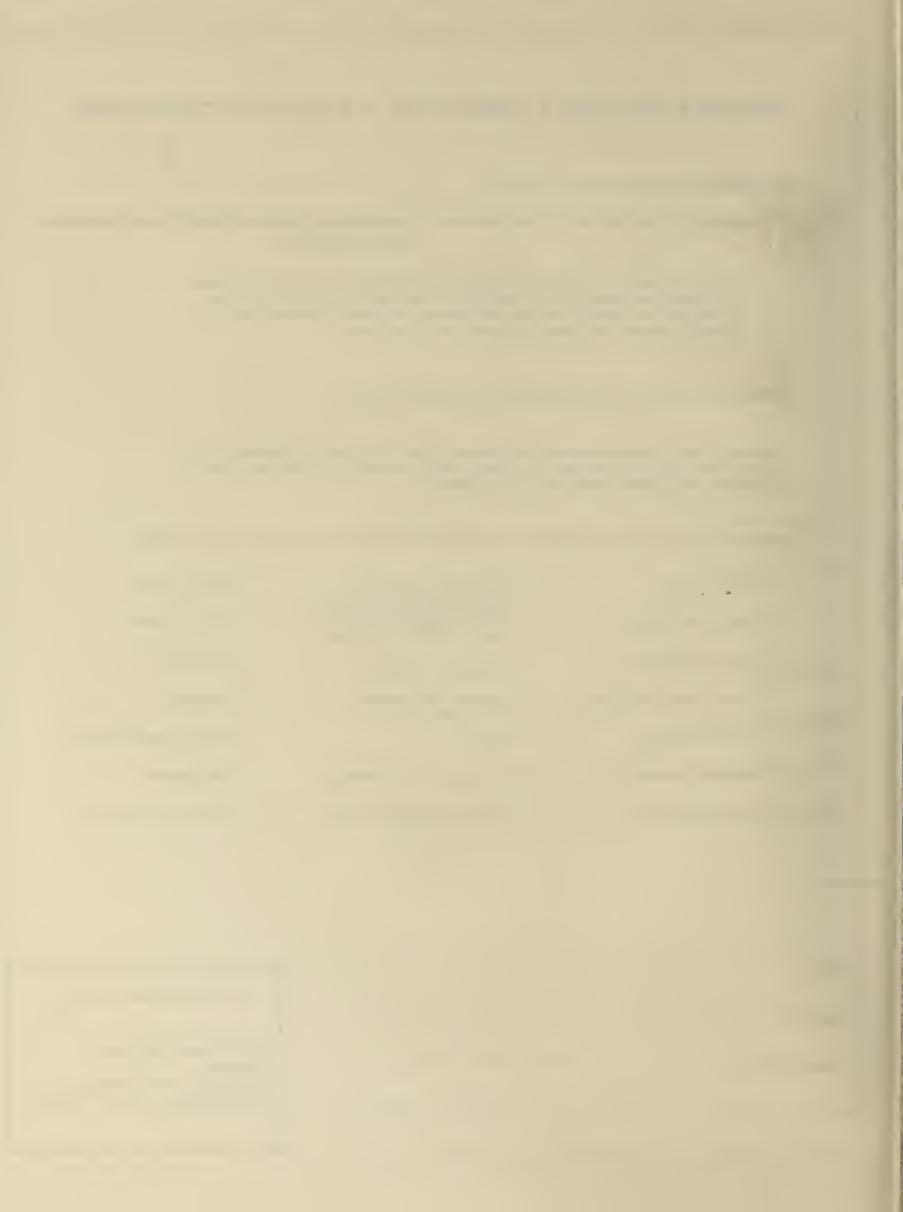
Alaska California Hawaii Oregon Washington



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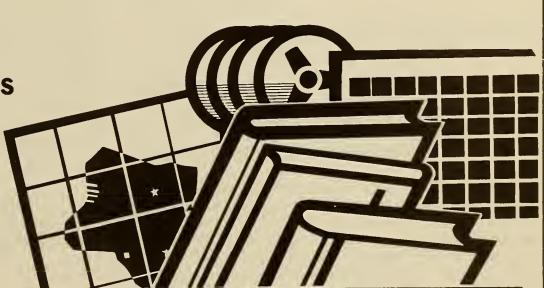


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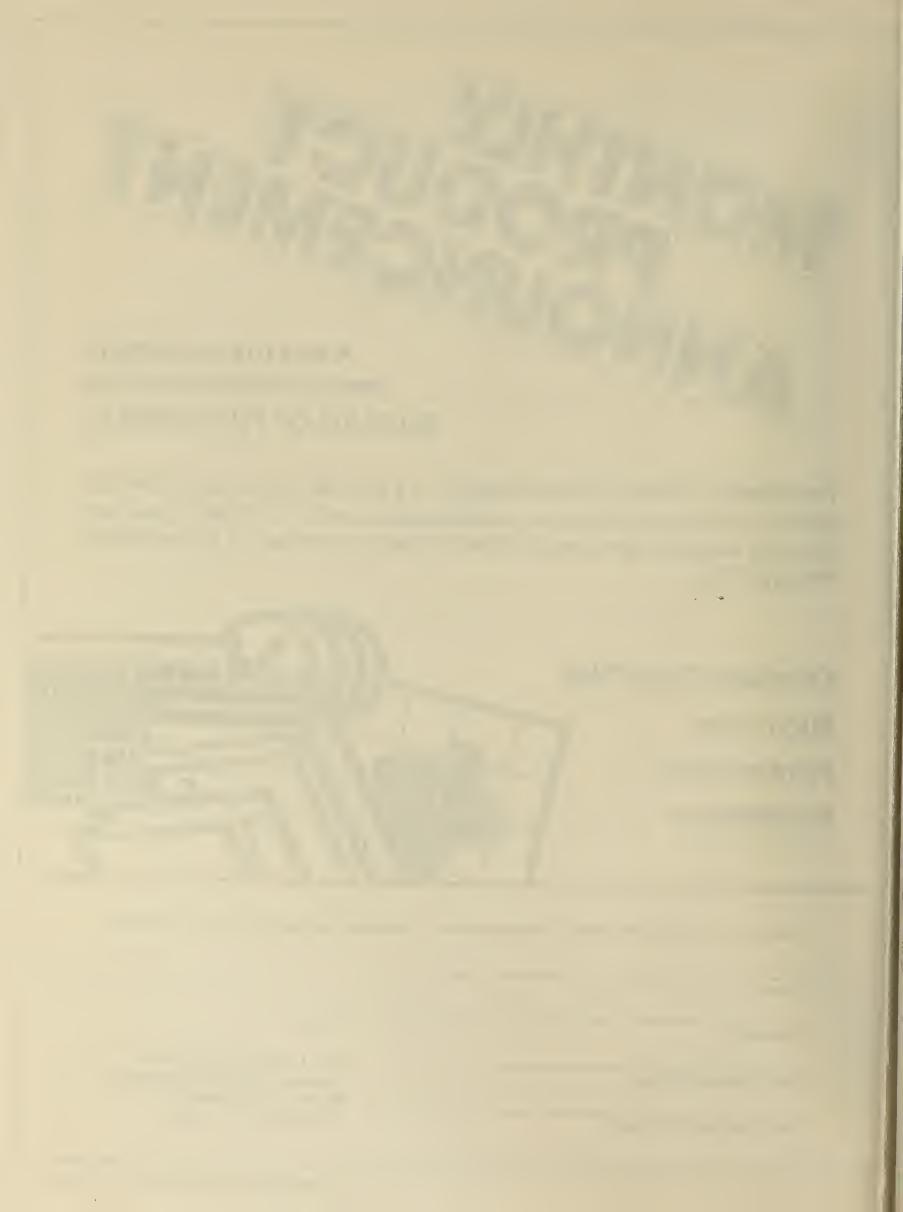
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PUBLICATION PROGRAM

1982 CENSUS OF CONSTRUCTION INDUSTRIES

Publications of the 1982 Census of Construction Industries, containing data on construction establishments in the United States, are described below. Publications order forms for the specific reports may be obtained from any Department of Commerce district office or from Data User Services Division, Customer Services (Publications), Bureau of the Census, Washington, D.C. 20233.

Preliminary Reports

Preliminary data from the 1982 census have been issued in 27 industry reports and 1 summary report. These reports are superseded by more detailed final reports.

Final Reports

Final detailed statistics are issued in separate paperbound reports.

Industry series - 28 reports (CC82-I-1 to -28)

Industry series — 27 reports (CC82-I-1 to -27). These reports present data for establishments with payroll and are published for each of the 27 industries included in the census. Each industry report presents 1982 data by State and for the United States on number of construction establishments; receipts; employment; hours worked; payrolls; payments to subcontractors; payments for materials, components, and supplies; payments for power and fuels; payments for selected purchased services; payments for the rental of machinery, equipment, and structures; value added; capital expenditures during the year; and depreciable assets. Limited data for 1977, 1972, and 1967 are also shown. In addition, more detailed data are shown at the U.S. level on construction receipts by type of structure (single-family houses, streets, roads, etc.). Selected data also are provided for establishments classified by their employment size and receipts size.

U.S. Summary – 1 report (CC82-I-28). This report summarizes the data for establishments with payroll presented in the 27 individual industry reports and presents limited data for establishments with no payroll.

Geographic area series - 10 reports (CC82-A-1 to -10)

Division reports (CC82-A-1 to -9). These reports are published for States grouped according to the nine census geographic divisions. Much of the geographic area series data are the same as presented in the

industry series, except here they are organized by State rather than by industry. Similar data also are presented for selected SMSA's. Data are provided for establishments classified by their employment size and receipts size. Data for establishments with no payroll as well as comparative 1977, 1972, and 1967 figures, on a limited basis, also are shown.

U.S. Summary by State (CC82-A-10). This report summarizes the data, as presented in the nine individual geographic division reports, for establishments with and without payroll.

Special series - 1 report (CC82-SP-1)

Legal form of organization and type of operation (CC82-SP-1) — This report presents limited data (number of establishments, number of proprietors and working partners, total employment, and total receipts) for construction establishments without payroll, for construction establishments with payroll, and for the aggregate, classified by industry and by legal form of organization. It also contains selected statistics (number of establishments, employment, payrolls, receipts, payments to subcontractors, net construction receipts, and value added) for construction establishments with payroll, classified by industry and by type of operation (multiunit or single-unit) and by legal form of organization.

Final Report Volume

Final paperbound reports subsequently are assembled and reissued in one clothbound volume.

Microfiche

All published data also are available on microfiche.

OTHER ECONOMIC CENSUSES REPORTS

Data on retail trade, wholesale trade, service industries, manufactures, enterprise statistics, minority-owned businesses, women-owned businesses, and transportation also are issued as part of the 1982 Economic Censuses. A separate series of reports covers the censuses of outlying areas—Puerto Rico, Virgin Islands of the United States, Guam, and the Northern Mariana Islands. All published reports and microfiche are sold by the Superintendent of Documents, U.S. Government Printing Office. Appropriate announcements and order forms describing these products are available free of charge from Data User Services Division, Customer Services (Publications), Bureau of the Census, Washington, D.C. 20233.

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